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No.30,798

Monday March 20 1989

#### Socialists gain ground in municipal French polls

France's ruling Socialist party gained ground in yesterday's second round of municipal elections, winning back over two thirds of the major towns it lost to the right in 1983. The Socialists gained control in Strasbourg, Brest, Mulhouse and 9 other large towns. Page

#### **Gandhi** report

India's opposition parties are claiming a major victory over the decision by Mr Rajiv Gandhi, Prime Minister, to publish a secret report into the assassination of his mother, Mrs Indira Gandhi, by her Sikh security guards. Earlier report, Page 6

#### Election deaths

Security forces killed two Salvadorean journalists, and a Dutch reporter also died in crossifire, as voting got under way in presidential elections and at least three soldiers died in fighting between govern-ment troops and leftist gnerrillas trying to sabotage the polls.

Seoul ballot chaos South Korea was enguifed in political confusion as rival parties campaigned both for and against a national referendum on President Roh Tae Woo's

#### performance: Page 6 Israel shootings

Four Arab rioters and an Israeli soldier were killed in a weekend of escalating vio-lence in Israel and the occupied Gaza Strip. At least 40 Palestinians and four Israelis were wounded. Page 4

#### Basque peace rally Moderate Basque opinion turned out in force in Bilbeo at the weekend for an unprece dented peace rally that called on the separatist organisation ETA to prolong indefinitely its 10 week ceasefire. Page 2

Takeshi Numata, backed by the ruling Liberal Democratic Party, won a third term as governor of Chiba, Tokyo's eastern neighbour, but with a reduced majority in one of two elections viewed as a test for the party in the light of the con-tioning Recruit Cosmos scan-dal. Page 5

#### DC9 inquiry ordered

DEC REPUT

Italy's air force has been ordered to set up an internal inquiry following presentation of the first authoritative report to confirm that a missile was responsible for the loss of the Itavia DC9 which crashed north of Sicily in 1980 with the loss of 81 lives. Page 2

#### Cypriot protest

About 3,000 Greek-Cypriot women stormed past troops into north Cyprus, breaching the Green Line, to protest at the division of the island. Some were taken into Turkish-Cyp-

#### riot custody. Page 2 SA trains crash

Two people were killed and about 150 injured when two trains crashed head-on at Industria, west of Johannes burg, South Africa.

Test for US Speaker Jim Wright, Speaker of the US House of Representatives, faces a test of political survival this week when the House Ethics committee is to vote on an investigation into his financial dealings. Page 3

#### Lockerbie pressure Paul Channon, UK Transport Secretary, will today face renewed pressure to make a statement in parliament on

his department's handling of the bomb warnings which pre-ceded the Lockerbie air disaster in which 270 were killed. Page 26

#### Japan tanker sinks

The Liberian registered chemiablaze off Japan since Tuesday, sank with no sign of the 23 Crewinen.

#### Greek earthquake An earthquake, measuring 5.8 points on the Richter scale, shook Athens and eastern Greece damaging the airport building on the holiday island of Skiathos.

## Business Summary **Brussels** to

# clear UK lean te **Shorts**

UK GOVERNMENT is due to get clearance from the European Commission this week to make a £390m (\$670m) bridg-ing loan to Short Brothers to pave the way for the sale of the struggling state-owned

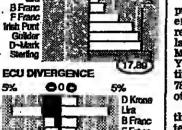
wednesday's full weekly meeting of the 17 Commissioners is almost certain to sanction the UK's plan to provide the already heavily indebted Belfast-based company with a three-month loan at commer cial rates of interest. Page 12

EUROPEAN Monetary System: The D-Mark continued as the strongest currency within the EMS last week despite its losses against the French franc and the dollar. Central banks intervened

to control the dollar's rise but investors continue to switch out of the D-Mark because a rise in US interest rates is considered more likely than an increase in West German rates.

The Danish krone remained the weekest member, and fell on Friday to trade around its

divergence limit. March 17,1989 000



Limit ECU Parity Day Position

The chart shows the two constraints on European Monetary System rates. The upper grid, based on the weakest currency in the system, defines the cross-rates from which no currency (except the lira) may move more per cent. The u chart gives each currency's divergence from the "central rate" against the European Currency Unit (ECU), a basket of European currencies. Currencies, Page 40

EASTERN AIRLINES, strikebound seventh largest US air carrier, has put most of its fleet of 230 aircraft up for sale, to increase pressure on its pilots' union and to generate sufficient cash for bankruptcy proceedings. Page 30

ASCOM, Swiss telecommunica tions group, clinched victory in its \$110m bid for Rockaway, a US manufacturer and distrib utor of mail handling equipment. Page 30

BEKAERT, world's largest steel wire and cord maker, has unveiled a 26 per cent recovery in 1988 net profits, more than making up for previous year's drop in earnings. Page 30

ORDER banning imports of certain types of memory chips made by Hyundai of South Korea issued by the US Inter-national Trade Commission.

FINLAND'S markka is expected to rise by about 4 per cent in foreign exchange markets today following the central bank's decision to adjust the trade-weighted band of values within which it seeks to keep the currency. Page 2

MANVILLE, US fibre glass forest products and specialty products group, is planning to expand its European operations. Page 30

POLAROID has won a major court victory improving its chances of defeating a takeover offer from Shamrock Holdings, investment vehicle of Mr Roy Disney, California business-

man, Page 30 **CAVENDISH International** Holdings, investment and nat-ural resources arm of Hutchison Whampoa, controlled by Mr Li Ka-shing, unveiled a 42.1 per cent increase in consoli-dated net profits after tax amounting to HK\$948.9m

(\$121m) for 1988. Page 30 SAMPO, Finnish insurance company which has been a target of speculation recently, plans to increase its holding in Fmanssilatos, the holding company that bought 25 per cent of Sampo stock on

Wednesday. Page 30 **HENDERSON Land Develop**ment, major residential prop-erty group, announced a 126 per cent increase in net profits after taxation to HK\$735.57m

# Yeltsin supporters march in anger at rally cancellation

THOUSANDS of supporters of Mr Boris Yeltsin, the Soviet Communist Party rebel, marched through the streets of Moscow yesterday in angry but dignified protest at the cancellation of an election rally by the city council.

The spontaneous demonstration of popular support for the

The spontaneous demonstra-tion of popular support for the disgraced former candidate member of the Polithuro, and head of the Moscow City Com-munist Party, came just three days after the party leadership announced an inquiry into his election statements, which included a call for a referen-dum on a multi-party system. It also coincided with the first ever publication of voting first ever publication of voting figures from inside the ruling Central Committee, showing that Mr Yegor Ligachev, Mr Yeltsin's arch-rival in the leadership, attracted more opposi-tion from his peers than any other member of the Politburo. The details of the voting for 100 Communist Party deputies in the future superparliament – the Congress of Depu-ties – showed that 12 members

even dared to vote against Mr even dated to vote against Mr Mikhail Gorbachev. None of the 100 candidates put forward by the party lead-ership failed to win the required 50 per cent support of last week's plenum. However, Mr Ligachev, branded by Mr Yeltsin as the arch-conserva-tive in the Polithma attracted tive in the Polithuro, attracted 78 "No" votes; more than any other candidate.

other candidate.

The result, published in all the national newspapers yesterday, was still no great reassurance to reformers. The second largest number of "No" votes (59) was won by Mr Alexander Yakovley, the man who is seen as the most reformict of is seen as the most reformist of all, while Mr Viktor Chebrikov, the conservative former head



Pro-Yeltsin supporters protest in Moscow yesterday

of the KGB, got only one vote less than the Soviet leader. 628 in favour and 13 against.

Another indicator was that the least unpopular figure in the Polithuro was Mr Nikolai Ryzhkov, the Prime Minister, who has recently taken an who has recently taken an increasingly high public profile and appears an acceptable alternative both for reformers and conservatives alike.

The fact that such voting figures can still cause amazement in the Soviet Union is an indication of how little the system has yet opened up to public criticism of the leadership. The same interpretation can be given to the Central Com-mittee's decision to set up an inquiry into Mr Yeltsin's state-

ments, more in anger at a gamekeeper turned poacher, than because they have been more radical than others.

more radical than others.

The former Moscow party chief has only said that a multi-party system should he discussed – whereas one or two other party candidates have actually spoken in favour of such an innovation.

Perhaps more to the point has been Mr Yeltsin's repeated attacks on the Moscow party attacks on the Moscow party leadership, headed now by Mr Lev Zaikov, one of the most senior Politburo members. Yesterday's demonstration is the latest indication of a strong

Continued on Page 26

# Gulf producers consider underpinning crude prices

By Steven Butier in London

SAUDI ARABIA and Kuwait are considering steps to under-pin the price of Middle Eastern crude oils following concern among Gulf exporters over the failure of their prices to keep pace with those of North Sea and North American produc-

April futures contracts for West Texas Intermediate, the US benchmark crude, broke through \$20 a barrel for the first time since October 1987 on Friday. However, Dubai crude, the benchmark Middle Eastern crude, was \$4 a barrel cheaper, roughly double the usual price

Although the differentials etween the various crude oils widen or narrow in response to short-term market distortions, the unusually wide differential has persisted for many mouths, and amounts potentially to bil-lions of dollars in lost revenues lions of dollars in lost revenues for Gulf producers.

Kuwait is understood to have discussed with Saudi Arabia a proposal that would set a floor on the differential between Dubai crude and the North Sea's benchmark Brent crude of about \$1.80, compared with a current differential of about \$3. The floor would be used to price other Middle Eastern crudes when Dobai

slips far below Brent prices.
Although new price formulae for April sales of Middle Eastern crudes were not intro-duced earlier this month, as some traders expected, the proposals are understood to be still under discussion.

Suspicton has grown that because of the relatively low volume of trading in Dubai crude, prices may be subject to manipulation. In particular, it has been suggested that Japa-nese buyers have intentionally reduced purchases of Dubai in order to weaken the price of

alternative crudes. However, traders and analysts in the market say that the relatively high prices for North Sea and North American crudes reflect other factors. For example, equipment failures in the North Sea have led to a fall in the sector's output of over 400,000 b/d from peak production levels last year.

North Sea crudes are light, requiring less refining to produce products such as petrol and diesel fuel. They are also "sweet", meaning they contain little sulphur. Because of the shortage of oil of this quality, the price of similar crudes has risen faster than others. Middle Eastern oil tends to be heavier and "sour."

Many observers believe. however, that the premium for light, sweet crudes may have become a permanent feature of the market.

The oil bears, Lex, Page 26

# Apple wins first court battle

APPLE COMPUTER of the US has won the first round of a key legal battle with Microsoft and Hewlett-Packard to protect its distinctive Macintosh per-sonal computer software.

Apple has charged that pro-grams developed by Microsoft and Hewlett-Packard to give and Hewiett-Packaru to give IBM-compatible personal com-puters many of the attributes of the Apple Macintosh violate its copyrights.

A Federal judge ruled on Fri-day that a 1985 licensing agree-

ment between Apple and Microsoft in which Apple gave Microsoft the right to use certain aspects of its Macintosh technology applied only to the first version of Microsoft's

"Windows" program.

The ruling defeated Microsoft's first line of defence against Apple's claim that Microsoft's Windows violates its copyrights.

that could have far-reaching implications for the entire per-sonal computer industry.

He must decide not only upon Apple's claims that the "look and feel" of the Macin-

tosh displays are protected by copyright, but also Hewlett-Packard's counterclaim that Apple's Macintosh displays are not original and that its copyrights are thus invalid

Barring an out-of-court set-tlement, the judge will go on to consider aspects of the case

Both Microsoft and App have huge investments ridin on the outcome of the case. Both Microsoft and Apple

1992: Spectre of Fortress Europe haunts the

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president of Northern Telecom, Canada's foremost multi-national manufacturing concern, believes innovation and costeffectiveness will continue to be the cornerstones of the company's success in the future Page 44

ent: Yale and Valor: a double act kindling a secure flame .... UK securities markets: The row over the rules of the game .... January Growing anxiety over the concentration of wealth and power .... Lex Bad spring for the oil bears; Gold Fields; Japanese trusts; Taurus......

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#### Georgians stage a show of political resilience

By James Blitz In Tbillal, Georgia

THEY say that a week is a long time in British politics. But in the Soviet Republic of Georgia, they play out the whole gamut of politics in the middle of town on a Saturday

morning.
The backdrop to a series of The backdrop to a series of spectacular scenes on Saturday was, appropriately enough, the impressive golden facade of the Tbilisi Opera House. Between 10 o'clock in the morning and lunchtime, the entire drama of Georgian retired for the series of the ser nationalism was acted out between 2,000 demonstrators, 800 members of the Georgian political establishment and a

great many police.

Early in the day, some 300 students and workers had begun to congregate at the front door of the Opera building in Tbilisi's main street. They were all members of the

"informal political groups" which are tolerated but also criticised by the Georgian Communist Party.

The political goal of the informal groups is clear: greater economic and political independence for the Republic of Georgia from the rest of the of Georgia from the rest of the Soviet Union.

Walking into the Opera House, escorted hy Georgian militiamen, were the 800 extremely well-heeled delegates to the annual conference of the Rustaveli Society, a cultural organisation with 110,000 members.

It was set up by the Result-

It was set up by the Repub-lic's Communist leadership, specifically to counter the specifically to counter the informal groups. Its delicate task is to give expression to the growing sense of patriotism among the Republic's 5m people, but to keep the clamour under party control. It is the largest public organisation in Georgia.

It was shortly after the Rustaveli conference was formally declared open inside the opera house that trouble began out-

The red, white and black flag of independent Georgia was hoisted to cheers and half a dozen demoustrators mounted a platform. Placards calling for independence were up, right in the middle of the capital, and a student began addressing the 300-strong

gathering.

He had been speaking for two minutes when 20 militiamen, followed by the diminutive Mr Varlam Shadiri, the local police chief, moved into the large crowd of men and forthwood on Pero 26

# Role of IMF funds for debt relief queried

THE CHAIRMAN of the key LADB meeting, new US propos-policy-making committee of als introduced over the weekpolicy-making committee of the International Monetary Fund yesterday spoke ont against the use of IMF and World Bank resources to pro-vide guarantees to encourage the reduction of debt burdens of debt convertees

IMF and World Bank support for packages which reduce Third World debt is a critical element of new US proposals outlined earlier this month by Mr Nicholas Brady, US Trea-

sury Secretary, Mr Onno Ruding, the Dutch Finance Minister who chairs the Fund's interim committee, said yesterday he wanted "to put a special question mark at the provision of guarantees by the IMF and World Bank."

He said soch guarantees would hamper progress in reestablishing creditworthiness to debtor countries.
"If greater involvement of the IMF or World Bank would lead to an indirect bailing-out of commercial banks, we would

euter dangerous ground," he told a conference organised to coincide with the start Inter-American Development Bank annual meeting which begins in Amsterdam today.

This would, he said, run counter to the Interim Commit-

counter to the Interim Commit-tee's policy agreed at its last meeting in West Berlin last year which stated there should be no transfer of risk of private lenders to official creditors. However, the proposals drew applause from the two Group of Seven industrialised pations of Seven industrialised nations represented at the conference, Japan and France. Mr Toyoo Gyohten, Japan's Vice Minister of Finance for International Affairs, remarked, however, ou "an inherent incompatibility between debt cancellation and

new credit" which had to be resolved.
Mr Jean-Claude Trichet,
director of the French Treasury and chairman of the Paris Club of creditor nations, said under the current debt strat-egy, a transfer of risk was taking place in any case as the official creditors took an increasing share of new loans. "Therefore the problem is not whether there is a transfer of risk, but how do you get the best out of it."

Both officials said they believed that the concept of debt principal reduction should not be extended to official debts to the creditor nations represented in the Paris Club. In a separate development, in negotiatious before the

expected agreement oo a capi-tal replenishment for the Bank. The new US proposals would preclude the Bank – established 20 years ago to channel development funds to Latin America - from making cer-tain types of loans unless an IMF and World Bank economic

programme was in place.
The proposal would affect so-called sector development loans, designed to improve performance in one part of the economy, which are likely to account for up to 25 per cent of

total leoding.

The Latin American share-holders of the Bank object to holders of the Bank object to the proposals, which do, how-ever, appear consistent with a US desire to keep the IMF and World Bank in the driving scat in resolving the debt issue. Peter Riddell, US Editor, adds: Mr Michel Camdessus, the managing director of the IMF, will outline his organisa-tion's official attitude to the

isif, will obtaine his organisa-tiou's official attitude to the Brady Plan in a speech to the IADB conference today follow-ing discussious last week in Washington by the Fund's board of executive directors. Some of the executive direc-tors, particularly from Western Europe, apparently expressed

Europe, apparently expressed reservations about some of the risks involved and details of the plan. However, the general view of the executive board was positive. The Fund has so far publicly backed the plan as a basis for further work and hopes that substantial progress can be made in two weeks time at the meeting of its policy-making interim committee. However, monetary officials believe that the US and other leading Western governments

leading Western governments
need to take urgent action to
ensure rapid implementation,
particularly to put the first
debt reduction agreement,
probably with Mexico, in place
by the summer. There is also
concern that the main Western
governments should consider changes in their tax policies and regulatory procedures to encourage banks to participate in such debt reduction agreements

There are expected to be strong calls at the Washington meeting for a sizeable increase in IMF quotas, or resources, if the Fund is to play its full part in debt reduction. An increase of at least 50 per ceut is required merely to stand still aud maintain the Fund's

# Many more companies can now issue sterling commercial paper. Is yours one of them?

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ABOUT 3,000 Greek-Cypriot women stormed past troops into north Cyprus yesterday, to protest at the division of the island. Some were dragged into Turkish-Cypriot custody, Reu-ter reports from Lymbia,

Cyprus.
The women, accompanied by supporters from the US, Europe and Anstralia, breached the Green Line divid-ing the island at two places and remained in the north for several hours before returning to the south. Witnesses and a UN spokesman reported that more than 50 women were arrested at the two sites.

Arrested at the two sites.

About 2,000 women crowded across the UN buffer zone at Lymbia after evading helicopter-borne UN peacekeepers.

The handful of unarmed Turkish-Cypriot soldiers who met the women were powerless to balt them, but reinforce-

ments quickly arrived and arrested several of the protestors. The UN spokesman said 33 women were arrested at

Lymbia.

The Turkish-Cypriot leader,
Mr Rauf Denktash, whose
breakaway Turkish Republic of
North Cyprus is recognised
only by Ankara, had vowed
that anyone crossing the UN
buffer zone would be arrested.
Another 22 people who
crossed the Green Line further
east at Akhna were arrested,
witnesses said. A total of 1.000 witnesses said. A total of 1,000 women had crossed to the vil-

A UN spokesman said Turk-isb-Cypriot anthorities had agreed to return the arrested

Scores of Turkish-Cypriot women rushed to Lymbia and Akhna to stage counter-demon-strations. Policewomen inter-vened to stop scuffles.

The women, organised by a committee called Women Walk Home, ended both protests after about three hours.

Many were among 200,000
Greek Cypriots who left their homes in the north after the

Little progress has been reported at UN-sponsored talks which began last year between Mr Denktash and the Cypriot President, Mr George Vassi-liou, aimed at reuniting the island. The two last met on Fri-

# Spectre of Fortress Europe haunts bankers

David Buchan and William Dawkins look at confusion caused by the debate on reciprocity provisions

TOTHING did more to foster the worry abroad that the 1992 programme was creating a "Fortress Europe" than the way Brussels let confusion about banking reciprocity feater for much of last year.

It is therefore hardly surprising that foreign bankers started hiting their nails again last week, as the European Commission in Brussels and commission in Brussels and in June. The directive will then leagues' formal approval early next month for changes to make reciprocity more flexible. EC finance ministers will discuss the reciprocity issue on April 18, leaving their officials two months to try to negotiate "a common position". With luck, ministers can bless this in June. The directive will then so back to Strashoure for a sec-Commission in Brussels and the European Parliament in Strasbourg appeared to take quite different tacks on reci-

go back to Strasbourg for a sec-ond reading, or round of amendments. But the Council will have the final say, again by a weighted majority that gives two large states plus one small state a blocking minor-thy. Thus, say, touch reciprosa procity.

Sir Leon Brittan, the EC commissioner for financial services, promised to make "more flexible and less bureaucratic" the reciprocity provisions in the proposed Second Banking Directive, aimed at creating Community-wide banking privileges for any EC-based subsidiary — EC or foreign owned — which conforms to a minimum solvency requirement. But the Parliament promptly amended the directive, seemingly in the opposite direction.

To ease the mind of those ity. Thus, any tough reciprocity measure could be blocked by, say, the UK, Germany and Luxembourg – states which are philosophically opposed to using reciprocity as a major trade states.

using reciprocity as a major trade weapon.
However, "as a matter of pure politics we are not going to get the Second Banking Directive through without a reciprocity clause of some kind," stresses one Commission official. The "pure politics" in question are just not the protectionist sentiments of opposite direction.

To ease the mind of those foreign nail-biters a little, it should be pointed out that the Parliament is most unlikely to get all, or even most, of its way. The Strasbourg Euro-MPs could prevail only if the Commission were to side with its key amendments; the Council of 12 EC governments can only overturn by unanimity a several southern EC member states, but a general feeling even among the more free-trade-minded governments that the Community needs an international bargaining lever overturn by unanimity a united Commission-Parliament in an area - financial services which is not yet covered by General Agreement on Tariffs and Trade (Gatt) rules. stance. But since the Commission does not share all of Par-

In fact, there is a good chance of Gatt agreement on financial services by the close of the Uruguay Round negotia-tions next year. Once that is



achieved, the EC says it will try to "multilateralise" any reciprocity it has gained bilaterally, and any disputes arising out of the EC's use of reciprocity will be "Gattable" — that is, complaints can be taken to a disputes panel in Geneva.

For the time being though, the Commission needs reciprocity for three reasons, Sir Leon said last week. It must be able "periodically to make an assessment of whether EC credit institutions enjoy effective access to third country markets, particularly of our major trading partners." It must be able to propose negotimust be able to propose negoti-ations "with third countries to ations "with third countries to obtain improved market access where Community banks as a whole are suffering material damage because of lack of reciprocity" to the Council. And, "as an instrument of last resort . . . the Commission must have the power to pro-pose, and the member states to implement, measures to restrict the establishment of new banks coming from third countries, which are denying effective market access to our

At the same time, however, Commission officials are plan-

new third-country bank subsidiaries, or third-country acquisi-tions of EC-based bank subsidiarles, to give Brussels three months to determine whether or not the third country in question gives EC banks "reciprocal treatment".

We want to move towards using the reciprocity test as a reserve, discretionary power," says one Commission official. "Perhaps we would wait until a

"Perhaps we would wait until a member state tells us it has a problem (of foreign market access), or when we indge there is a problem. We do not want to apply the reciprocity test bank-by-bank."

The term of "reciprocal treatment", so vague that It has understandably fuelled foreign paranoia about EC intentions, would also be redefined as "national treatment" — the chance for EC banks to commce for EC banks to compete on the same terms as local banks in a given foreign market. "Sanctions would only be applied where a foreign coun-try fell below this minimum of national treatment," says the

The main spanner which the Parliament threw into the works of the Second Banking Directive was a reciprocity amendment which covered "branches" of third country banks as well as the "subsidiaries" to which the directive currently limits itself. The Parlisment'e concern seemed to be that foreign banks might try to sidestep reciprocity require-ments by setting up branches, rather than subsidiaries, in the

As currently drafted, it states that member states would have to suspend all authorisations of get the "single passport" to bank across the Community which the directive would give a subsidiary, it could still draw

a subsidiary, it could still draw custom from the other 11 states by exploiting the planned lifting of exchange controls after mid-1990.

Commission officials acknowledge this possibility, but say they have not the slightest intention of doing anything about it. Foreign anything about it. Foreign bank branches, they stress, must remain under the twin control of the national authorities in their bost EC state and in the home country of their

oreign parent.

oreover, Commission
officials point out
that the Parliament
amendment really has less to
do with strict reciprocity (that
is, market access) then with
the extraterritorial application
of EC productial reconverses. the extraterritorial application of EC prudential requirements. They say Strasbourg's concerns about bank solvency cannot be applied to branches, because they do not have balance sheets separate from their parent banks, but would have to be applied to the parent institutions themselves in third constraints. third countries - a recipe for

endless dispute.

"Try applying that to the Moscow Narodny's Frankfurt branch," scoffs one Commission official. Mr Shin Kawagu chi of Sumitomo Bank in Lon-don echoes the view that EC supervision of foreign bank branches in the Community would be "unworkable". (Accompanying the Second Banking Directive is a proposed solvency directive, appli-cable to subsidiaries that by definition do have their own balance sheets).

But the Commission is dis-posed to follow the Parliament in closing a loophole concern-ing the parentage of subsid-iaries. As currently drafted, the directive could allow bank subsidiaries in the EC, whose immediate parent is an EC company but whose ultimate parent is a foreign-owned holding company, to escape the reciprocity test. Brussels officials say they now agree "the ulti-mate parent" should determine the nationality of the EC-based

subsidiary. Yet this could raise problems under Community law, suggests Sarah Ludford of American Express, the diversified US financial services company. Take the case of a European bolding company already established in the Community which seaks a Community banking licence for a subsid-iary," she says. "Such a hold-ing company would be treated differently from its wholly ECowned counterparts. How would that be compatible with Article 58 of the Treaty of Rome which promises equality of treatment to all EC-incorporated institutions?

The manner in which reci-procity finally appears in the Second Banking Directive will, rightly, be taken as a prece-dent for other forthcoming RC financial measures, such as the proposed directive liberalising investment services. It will also indicate whether "Fortress Europe" is a ghost that can be laid to rest, or a real spectre.

**Basques** turn out in force for peace rally

By Tom Burns in Madrid MODERATE Basque opinion

MODERATE Basque opinion turned out in force at the weekend for an unprecedented peace rally that called on the separatist organisation Ein to prolong indefinitely its 10-week ceasefire.

About 200,000 were estimated to have taken part in a march through central Bilhan on Saturday that had been organised by the moderate nationalists of the regional Basque government and was backed by all Basque political parties, except the radical coalition Herri Batasuna (Popular Unity), which supports the Eta gunnen.

the Eta gunmen.
The rally came at a crucial moment in a process of secret preliminary contacts being conducted in Algiers between representatives of Eta and of the Madrid Government. On January 23 ETA said it would maintain a ceasefire, initiated two weeks earlier, until Easter Sunday in exchange for meetings with povernment offiings with government offi-

The turnout followed preparation by the regional govern-ment that included the direct mailing of 600,000 invitations to attend the rally, and the organisation of scores of buses and special trains.

and special trains.

Given an overall Basque population of just over 2m, about 300,000 of whom live in Bilbao, the size of the demonstration prompted its organisers to judge it an unqualified species.

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# Markka likely to rise by 4%

By Olfi Virtanen in Helsinki

liament's views, such unanim-

ity (difficult to achieve on so

divisive an issue as reciprocity)

need not be mustered.

FINLAND'S markka is expected to rise by about four per cent in foreign exchange markets today following the central bank's decision to adjust the trade-weighted band of values within which it seeks

to keep the currency.

The Bank of Finland's action
on Friday, along with an
increase in turnover tax and eocial security payments announced by the Finance Ministry, were the latest moves to cool the overheating econhighest permitted level within the old band, reflecting the Bank of Finland's policy of high interest rates
The revaluation is likely to

increase imports and the Government sought to avert a likely rise in consumption by increasing turnover tax by a half percentage point for five months from June. Employers' health insurance payments will also go up by a quarter percentage point for seven

Before revaluation, the months from May, markka had been trading at Mr Rolf Kullberg, Governor highest permitted level within of the Bank of Finland, says the trade balance, which is the only surplus item on the cur-rent account, will probably deteriorate as a result. But, he

points out, a revaluation is a "temporary measure".

'The forest products industry, Finland's leading export earner, will lose an estimated FM1bn (£134m) annually. The fiscal measures are expected to take about FML2-1.5bn out of

# Italy orders air crash inquiry

By John Wyles in Rome

THE Italian air force has been ordered to set up an internal inquiry, following presentation of the first authoritative report to confirm years of speculation that a missile was responsible for the lose of the Itavia DC9 which went into the sea north

which went into the sea north
of Sicily in June 1980.
"The accident to the DC9
was caused by a missile explosion near the front part of the
airplane," was the conclusion
of a team of experts who
nearly five years ago were
given the task of explaining given the task of explaining

the disaster. Since few air disasters have been investigated to so little effect as the so-called Ustica tragedy, in which 81 lives were lost, an authoritative conclusion may help break through the wall of evasion, missing evidence and political irresolu-tion surrounding it. Both scientific evidence and

the recording of the flight crews' conversation supported the missile explanation, says the report. The final word spoken in the cockpit before the external explosion was "goar..." which suggests one of the crew was about to say "guardi" or "look" to his colleague. Two seconds later there was what "seems to have here an explosion extends the been an explosion outside the aircraft".

Whether one of the crew had seen a missile or a fighter air-craft cannot be known. The report says radar evidence shows a smaller fighter-type aircraft flew close to the DC9 just before it disappeared from





I thought I had more time. You always do. The job was done and my schedule was clear.

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At least I had time to catch my breath.



By Lionel Barber in Washington

MR Jim Wright, Speaker of the US House of Representatives, faces a test of political survival this week when the House ethics committee is expected to vote on a nine-month investi-gation into his financial deal-

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ings.

A leading Republican opponent, Congressman Newt Gingrich of Georgia, predicted yesterday that the committee's report would be so damaging that the Speaker would be forced from office by June.

Mr Wright's fate, however, lies with his fellow Democrats, most of whom seem rejuctant

most of whom seem reluctant at this stage to take the unprecedented step of remov-ing a Speaker at mid-term in his office. Much will depend on whether the ethics committee decides there is sufficient evidence to warrant formal charges against the Speaker, or chooses to confine itself to a

Mr Wright faces charges that he used improper influence with bank regulators on behalf of three Texas executives of properties and troubled savings and loan institutions. His relationship with a Texas developer, Mr George Mallick, is also under investigation, as is as a book deal in which he received inonlinately high royalties of 55 per cent.

Mr Wright, who is a Texan,

crats would press Mr Weither to step down or to quish some of his power.



comes from a state where politiical back-scratching is a way of

life, but many Democrats are troubled by the notion that the Speaker — the third highest US elected office — may have violated House rules on ethics. Washington's recent preoc-cupation with ethics – typified by the failure of Mr John Tower to win confirmation as Defence Secretary — has also not helped the Speaker's cause.

Mr Gingrich, who led the campaign against Mr Wright, predicted senior House Democrats would press Mr Wright either to step down or to relincuish some of his power.

because it appears as if the Administration is saying nobody will pay. "One of the great benefits of these present ideas is that, in and of themselves, they do not

This was how one American

Organised by NMB Bank to coincide with the annual meeting here of the Inter-American

ing here of the Inter-American
Development Bank, the conference brought together some of
the main protagonists in the
debt issue in a public forum,
for the first time since Mr
Nicholas Brady, US Treasury
Secretary, announced the new
US monosels

US proposals. Mr David Mulford, the US

Treasury official widely considered the main architect of the

proposals, insisted they were

not a hiseprint. He provided some slight refinements on Mr Brady's speech, which envis-aged "support" from the inter-national financial institutions

for voluntary debt reduction by banks. This could include, he said yesterday, IMF and World Bank "support for interest pay-

ments on a rolling basis for a

limited period". In some quarters, the Brady

proposals are being criticised

responding says it's a great idea, as long as the other guy pays for it."

This was how and hard. time," Mr Mulford told journalbanker summed up reaction to ists. "They involve a shift in the US proposals on develop-ing-country debt at a high-level seminar in Amsterdam yesterthe direction and use of

There were few dissenters from the assessment of Mr Jean-Claude Trichet, Director of the French Treasury and chairman of the Paris Club of Western creditor nations, that the proposals marked "a turning point" in the debt crisis.

However, the first concrete sign that the Brady ideas could meet resistance came from Mr Onno Ruding, the Dutch Finance Minister and chairman of the interim committee of the IMF. "I want to put a special question mark at the provision of guarantees by the IMF or the World Bank," he said. Indeed, while the US ideas were applauded from all sides of the debate, it was clear that

in many quarters the hard questions are now being asked. Mr Eugene Rotherg, a former treasurer of the World Bank and now an executive vice president with Merrill Lynch on Wall Street, articulated Precisely who will take the

risk, who puts up new money, and how much in resources will be available? Who takes losses and through what mechanisms, and how does this

Hard questions about who pays for the Brady plan

Stephen Fidler at a European seminar listens to reactions to the latest US proposals on debt

Jose Luis Machinea: ques-

affect the cash flow of the debtors? What will be the accounting impact on the lending instiing inject on the lemming insti-tutions and how are the beneficiaries chosen? Will it be first come, first served, or will those in worst shape be the first to benefit? Or those in

best shape?
When these are known, other questions raised widely at the seminar will be asked.
What kind of impact will the plan have on incentives in debtor countries?

Perhaps most central of all: is accelerated debt reduction incompatible with new loans from banks? The essential problem here is that unless

Toyoo Gyohten: incompatibility needs to be reconciled

debt reduction is huge it does not address the problem of the hig resource flows from the debtor countries, amounting to \$30bn from Latin America last year. Mr Toyoo Gyohten, Japan's vice-minister for international finance, agreed that the "incompatibility between debt cancellation and the new credit needs to be reconciled". That would happen only when creditor banks were con-

vinced that the quality of their new credits and the remainder of their old credits were enhanced compared with the cancelled portion of their old

Mr Gyohten and Mr Trichet

the eyes of creditors. There was also a conflict of views on the question of flight capital. Mr Horst Schulmann of the Institute of International Finance, the Washington-based group that speaks for the banks, insisted that repatriating flight capital was essential to resolving the debt crisis. Mr Jesus Silva Herzog, the former Mexican Financo Minister, said he believed that only when the debt issue was solved would flight capital come home.

But only Mr Jose Luis Machinea, the president of the central bank of Argentina, questioned the voluntary basis for debt reduction. He asked whether in a voluntary framework, banks would waive the sharing and negative pledge clauses of loan agreements that stand in the way of debt redoction. "If the approach continoes to be based on small operations, the net transfers won't cease and the debtor problem will remain largely

Onno Ruding: first signs of

tations that volontary debt reduction by banks for middle-

income countries might be fol-lowed by the same from the Paris Club.

According to Mr Trichet, the

need for creditor governments to reduce debts was not proven, since official credit to

middle-income countries made up a greater and greater share of the total and continued to be

forthcoming, while commercial bank lending had dried up.

Others, incloding Mr Rot-berg, were concerned that too

great a role for the World Bank in the process might damage

unsolved." There also remains a worry that the US promise of a review of the debt strategy, and the subsequent Brady proposals, may have raised hopes which cannot be fulfilled, espe-cially in the short term, given the issues still to be resolved. As Mr Mulford said of the ideas: "They are not in place and not, strictly speaking, usable at this moment.

# Chile unveils fruit industry rescue plan

By Barbara Durr in Santiago

THE CHILEAN Government has announced a fruit industry rescue plan worth 7hm pesos (\$28m) to tackle problems which arose when the US hanned sale of the fruit for four

days.
The ban was put into effect last Monday when US officials found two cyanide-tainted grapes and after the US embassy in Santiago had received anonymous phone calls saying fruit exports would be poisoned. The US move was quickly followed by Canada and Japan, and Chile's fruit was caught in an exports bottleneck in refrigeration facilities. However, the US ben was lifted for grapes last Friday and a decision on other fruits was due today.

The money will come from Chile's \$2bn (£1.2bn) in foreign exchange reserves and as a result the country will have to negotiate new targets for its International Monetary Fund programme and a loan from the World Bank.

Mr Jorge Selume, Chile's

jobs programmes in affected fruit growing areas, \$2m for an advertising campaign to help re-establish international consumer confidence and \$14m to

buy up to 1m crates of fruit. Chile's real losses, and con-sequently the amount of the World Bank loan, have not yet been fully calculated, accord-ing to Mr Selume, Fruit exporters say their immediate losses are one thing, but the future is quite another. They are worried that permanent damage has been done to their international markets.

Independently of the Govern-ment, Chilean commercial banks have meanwhile arrived at an accord with fruit exporters to postpone payment of the exporters' loans until June 30. No direct intervention by the central bank is conten at least for now, according to Mr Guillermo Ramirez, the

superintendent of banks: Fruit exports have res under heavy security. The first six boats left on Saturday bound for Europe. Shipments of grapes to the US are due to restart tomorrow.

# budget director, said the plan would provide \$12m for special Albertans likely to boost Getty mandate

By David Owen in Toronto

ALBERTANS go to the polls today in a provincial election that is widely expected to extend Premier Don Getty's majority mandate for a further

The western Canadian prov-ince has returned a majority ince has returned a majority Conservative government in each of the past five elections. Most recently, in May 1986, the Tories won 61 of the 83 seats at stake, against 16 for the provincial New Democrais, four for the Liberals and two for the now defunct right-of-centre Representative Party.

Mr Getty opted to call an early election partly to forestall any prospect of a Liberal revival under Mr Laurence Decore, the party's well-known but recently-installed leader.

Another incentive was to get the election out of the way before the final judicial ruling on the collapse of the Principal Group, a regional financial institution.

institution.

The ruling is expected to be critical of the Government's

role in the affair.
But more positive factors also played a part in the pre-mier's decision. These include the resurgent regional econ-omy, the favourable reaction to a recently-sgreed land claims settlement with Alberta's Lubi-con indians, and the appar-ently changeless nature of the bedrock Tory rural vote.

If few expect Mr Getty — a former football player and keen golfer — to be beaten, serious question marks hang over the size of his victory and the identity of the official expe the identity of the official oppo-

In the last week of the month-long campaign, Mr. Getty's fears of a Liberal groundswell have been partially reclied. The party has made hay with the issue of fiscal responsibility attacking an cal responsibility, attacking an extraordinary list of Tory spending pledges and cashing in on Mr Decore's reputation for fiscal rectitude during his stint as mayor of Edmonton. Meanwhile, the New Democrats under Mr Ray Martin have been quietly attempting to build on their own strength in the Edmonton region. In 1986, the left-of-centre party won 12 out of 17 seats in the

provincial capital.
One recent opinion poll put the Liberals within a point of their New Democratic rivals, with the support of 18 per cent of decided voters.

However, both opposition parties remained far in arrears of the ruling Conservatives. Tory support was pegged at a aunting 63 per cent. Ontario-born Mr Getty has

Omario-oorn air Getty has based his campaign on a simple two-planked platform: the spending pledges so deplored by the Liberals, and criticism of the policies being implemented in Ottawa by his ally, Prime Minister Brian Mulro-

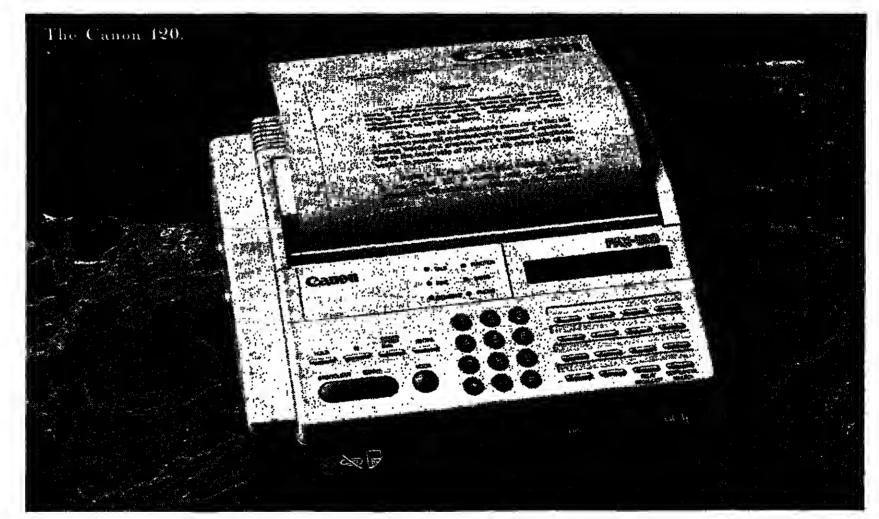
On the first count, Mr Getty has promised in excess of Ctain (2976m) to a checklist of worthy causes including senior citizens and victims of domes-tic violence. The most critic-ised initiative has been a pledge of at least Ctibn over 10 years to pave all the province's secondary roads.
On the second, the premier

has focused his attacks on the issues of senate and tax reform, and the uncompromising anti-inflationary stance adopted by the Bank of Can-ada. To reinforce his attacks, he has promised C\$400m to protect home buyers and small businesses from rising interest

All in all, staunch Tory support in the countryside, where Mr Getty's relaxed, irredeemably perochial air is warmly appreciated, will probably be enough to carry him to victory despite Mr Decore's shrewdly directed barbs.

However, unless otherwise vulnerable Conservative candi-dates benefit mordinately from the split opposition vote, Mr Getty could find himself presiding over a somewhat diminished caucus.

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By Eric Silver in Jerusalem

AN international Jewish solidarity conference, called by Mr Yitzhak Shamir, the Israeli Prime Minister, is turning into a gauge rather than an affirmation of support for his Govern-

Officials said yesterday 1,100 Jews from 50 countries were expected to attend the threeday conference, opening in Jerusalem today. The organis-ers have scrupulously given equal time to senior ministers from the Likud and Labour halves of the national-unity coalition and allowed their guests en opportunity to reply. Mr Shamir will, however, have to convince them that he is not seeking a blanket public

Palestine Liberation Organisation or to exchange territory

for peace.

Many of those invited have chosen to stay away rather than risk being exploited to shore up policies they do not like. The Jerusalem Post said only about 50 of 130 invited from Britain agreed to attend.

American Jewish leaders are expected to use the conference expected to use the conference to urge the Prime Minister to produce fresh ideas for advanc-ing the Middle East peace pro-cess ahead of talks with the US on April 6.

An opinion poll published last week showed a decline in support for Israel among American Jews since the start of the

Strip 15 months ago. According to the poll, conducted for the American Jewish Committee, 54 per cent disapproved of the way Israel was trying to put down the intifoda.

Thirty-eight per cent favoured territorial compromise for peace while 30 per cent were against, and 47 per cent endorsed the right of the Palestinians to a homeland "as long as it does not threaten Israel", with 23 per cent

opposed.

The American Jews polled 69-14 per cent against Israeli negotiations with the PLO, but approved the US dialogue with the Palestinian organisation by 38-28 per cent. Younger Jews identified with Israel significantly less than their alders.

#### Israeli and six Arabs die in clashes

SIX Arab rioters and an Israeli soldier were killed in a week-end of escalating violence in Strip, writes Eric Silver. At least 40 Palestinians and four

Israelis were wounded. In the most serious clash yesterday, a 26-year-old Arab stabbed three border policemen chasing a suspect in the Tufah district of Gaza city. The assailant, Talai al-Araai, was shot dead on the spot. The three paramilitary policemen were treated in an Ashkelon hospital, where two were said to have suffered medium

wounds and one light wounds.
In the West Bank village of
Silat al-Khartiya, troops shot
dead two Arabs aged 12 and 18 and wounded two others, secu-

rity sources said. Yesterday's incidents followed a big confrontation on Saturday in Sheikh Radwan, another district of Gaza city.
Troops shot dead three rioters
and wounded 37 others when
youths stoned soldiers pasting
up warning wall posters showing a petrol bomh and its consequence, an army bulldozer demolishing a house.

geant, Oren Lior, killed in an ambash on the Jordanian bor-der on Friday night, was bur-ied yesterday. His two attackers, memhers of the Syrien-backed rebel Fatah groop led by Abu Mussa, escaped back across the light-ly-feuced Jordanian border, where they were detained by King Husseln's army.

This rare raid from Jordanian territory was evidently designed to discredit the PLO leader, Mr Yassir Arafat, who is seeking a negotiated settle-ment with Israel and says he has renounced terrorism.

#### Egypt money markets in turmoil

By Tony Walker in Cairo

MONEY changers in the Egyptian port city of Port Said suspended trading at the weekend, apparently under official pressure, because of wild fluctuations in the value

wild finctnations in the value of the Egyptian pound.

The unofficial market rate for the local currency slipped by 3 to 10 per cent, to about E£2.80 to the US dollar, last week, a gap of some 16 per cent with the official rate.

In the past year or so, the Government has appeared to accept a 5-6 per cent premium in the unofficial market — the "grey" market is mainly used by private traders to raise funds to open letters of credit — but has cracked down hard when the gap widened.

when the gap widened. Egyptian and foreign bankers said a number of factors appeared to have contributed to the unsettled state of the Egyptian unofficial market, including foreign exchange shortages, rumours of difficul-ties at several banks, and news that the US is withholding \$220m (£135m) in cash because of Egypt's failure to implement suggested economic

A squeeze on credit available for debt-burdened Egypt, which owes its foreign creditors \$44bu, is another factor in the country's foreign exchange TWO JOURNALISTS SHOT DEAD AT CHECKPOINTS

# Violent start to El Salvador poll

POLLING in yesterday's presidential elections in El Salvador got off to a violent start, with a battle in the suburbs of the capital, San Salvador, and the death of two journalists.

As polling stations opened in the suburb of San Ramon, 10 minutes from the centre of the capital, helicopter gunships attacked a left-wing FMLN guerrilla unit with rockets and machine guns for over two

Cartridges showered over the tin roofs of the houses, while the explosions of the rockets and artillery echoed across the city. One government soldier lay dead shot through the chest. Another was saved from death when a clip of cartridges in his tunic pocket stopped a bullet. Meanwhile, a photographer

for the Reuters news agency was shot dead at an army checkpoint in the capital early in the morning, reportedly for failing to stop his vehicle, and a member of a local television crew was shot dead in a similar incident in the provincial city of San Miguel

A transport stoppege organ-ised by the FMLN guerrillas, who are boycotting the elections, was making polling slow yesterday morning. Nonethe-less, a steady trickle of people was arriving at the six voting centres in the capital. In the east of the country,



President Duarte: broadcast backfired

guerrilla attacks in the towns of Berlin and Chilameca delayed the opening of polling stations, while in remoter parts of the country, no polling was taking place at all, because the Government could not guaran-tee the security of polling sta-tions. The FMLN however has said it will not directly attack any of the polling stations.

Despite the official closure of the electoral campaigns last

Thursday, radios and newspapers broadcast attacks on the left-wing Convergencia Demo-cratica (CD) until less than 24 hours before polling.

Dr Guillermo Ungo, the presidential candidate for the CD,

said the Air Force was violat-ing electoral laws by dropping propaganda leaflets over the capital on Saturday, portraying his electoral coalition as a

his electoral coalition as a front for the guerrillas. He is the first presidential candidate of the left in El Salvador since the beginning of the decade.

At the polling stations, few CD party representatives were present, apparently for fear of identifying themselves and of possible reprisals later should the far-right Arena Party win, as it is widely tipped to do.

Mr Alfredo Cristiani, the Arena presidential candidate, made conciliatory noises on Friday, saying his party in gov-Friday, saying his party in gov-ernment would be prepared to continue negotiations with the

FMLN. He made no new proposals, however. Another controversy was stirred on the eve of the polls when the Government used the emergency broadcasting sys-tem linking all television and radio stations on Friday night to broadcast an attack on Arena. The manoenvre back-Arena. The mandenvie occar-fired when Arena obliged the Government, controlled by President Napoleon Duarte's centrist Christian Democrats,

might before the polls.

Meanwhile, a failure of the electricity supply and a breakdown of the public transport

to give it the same air time on

the emergency system to make a counter-attack on Saturday

weakness of the Government and its limited ability to con-trol the country and economy. in the face of the guerrillas' ability to sow disruption. The frequency of electricity black-onts, and the time taken to renew supplies, has become a rule-of-thumb measure of the balance of forces.

Last week, the capital was without light and water for almost three days. TV and radio stations went off the air. radio stations went off the air. Power was restored on Saturday but was interrupted half a dozen times. As polling began yesterday, power and water supplies in the capital were cut again. The fighting in San Ramon centred on a big storage tank supplying drinking syster to the capital. water to the capital.

Real Contraction

It was not an auspicious start to the polling day, and hardly the image of a model election. The worst is perhaps that of the 1.9m registered vot-ers, only 1.4m were issued with voting cards in time, thus disenfranchising almost 25 per cent of the electorate.

The first tentative results were expected in last night, although given the disruption and the transport and commu-nications difficulties, final election results may not be known until tomorrow. A second ballot may be required if the first does not produce a winner with an absolute majority.

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# Venezuelan reserves rise sharply to \$7bn

By Joe Mann in Caracas

VENEZUELA'S international monetary reserves have risen. to over \$70m recently, thanks to \$650m in bridging credits received recently from the governments of the US and Spain, according to the president of the Central Bank, Mr Pedro

The new Government's liq-uid foreign exchange reserves, which had been nearly wiped out when it took office last mouth, now stand at more than \$1bn, Mr Tinoco said. This sharp increase in liquid reserves was due mainly to deposits of \$450m from the US Treasury and \$200m from Spain, both provided to help Venezuela through a particu-

larly tight cash squeeze. The bank president said these-credits -had allowed Venezuela "to maintain pormality in our [international] payments, covering payments for current imports and for letter of credit obligations".

zuela hopes to obtain over the next few weeks, including \$600m from commercial banks and \$453m from the International Monetary Fund. It also seeks other credits from the IMF, World Bank and Inter-American Development Bank. While Venezuela has over \$7bn in foreign reserves, most

of it in gold and securities, liq-mid reserves that can be used to pay for imports or to service debt have been a serious prob-lem since the present government assumed power.
They were reduced to around

\$200m in early 1989 after the previous administration imported over \$11hn in goods last year and paid out an esti-mated \$4.7bn in foreign debt service. The Government declared a moratorium on principal pay-ments for most of its \$38bn in public and private sector, for-eign debt, and has told interna-

tional banks it will pay interest

### UK trade mission finds attractions for investors

NOW that Venezuela has unified its foreign exchange rates, begun to reduce tariffs and established a series of other important economic other important economic measures, the country should be of "extreme interest" to many UK investors and exporters, according to Sir Jock Taylor, who headed a British trade mission that just completed a week of meetings with high-level Venezuelan officials and businessmen, writes Joe Mann.

Sir Jock, chief of a 17-member Latin American Trade Advisory Group (Latag) mission representing British

sion representing British

industry and finance, added that key areas of interest in Venezuela for investors and exporters were mining, agroindustry, tourism and machine tools, especially for making equipment for Venezuela's

The Latag mission will advise the British Government on the trade and investment situation in Venezuela. Sir Jock, formerly the UK's ambassador to Caraca UK exports to Venezuela in 1988 were £177m, while imports, mostly petroleum, reached £100m.

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# JAPAN: ITS ECONOMY, SOCIETY AND FUTURE

# At the Leading Edge of Technology

Two simple concepts, electronics and energy, form the core of Toshiba Corporation's ever-expanding activities. The Company's dominant business areas—information/communication systems, electronic devices, heavy electrical apparatus, consumer products and more—are all built around this core concept.

Concentration on electronics has been central to Toshiba's recent strategy, especially in the technologically challenging information/communication systems and semiconductor fields, where Toshiba ranks among the world's leaders.

Toshiba's extensive research and development program holds the key to the Company's continued success. In this interview, Toshiba's President Joichi Aoi puts the Toshiba Group's activities into perspective.



Mr. Joichi Aol (right), president of Toshiba Corporation, talks with Professor Gregory Clark, Sophia Univer

Clark: Why do the Japanese people have such a strong sense of responsibility when it comes to maintaining quality control standards? What is it in the Japanese culture that creates this attitude?

Aoi: There are a number of things, but to explain it simply, I think it comes from people taking pride in their work. This is true not only in Japan but in Europe, for example, where the "Meister" apprenticeship system engendered the same way of thinking. Also, the employees have a clear sense of the role they play in the overall system. Simply assembling parts is not enough—the employee has to understand the significance of his job and its role in the total production system.

Clark: So there is a sense of responsibility to work well within the group. If one member does not do his work well, the other members will be adversely affected. But, where does this come from?

... Ack: I believe it comes from education. The Japanese work ethic is mainly rooted in Confucianism or Buddhism. In effect, the concept regards work as an expression of oneself. It is one of the expressions of our life that we inherit from our parents. I think this is one of the reasons why the Total Productivity Movement (TPM) that we started here at Toshiba has developed naturally. TPM is a companywide program to upgrade productivity by blending more sophisticated production technology and employee's dedication to productivity. It embraces all of Toshiba's operations giving the employees a market-oriented work ethic and allowing the Company to respond swiftly to changing needs and market conditions.

Clark: So work gives meaning

Aoi: I suppose you could say that. But it is not static. There is a theory that the relationship between employees and employers is very different from what it was before World War II. In postwar Japan, the company was viewed as an entity to foster the welfare of its employees—a cooperative body to help people survive. This concept carried over to the next generation. It has not broken down, and although it may be a bit exaggerated, many people point to it as a characteristic of Japanese companies.

Before the war, if things at the company didn't work out, people could return home to their farms, till their own land, and feed themselves. When business picked up again, they could return to the cities. After the war, most people didn't have farms to go back to. This is perhaps one reason why the bond with the company grew stronger.

Another reason that the tight bond between the company and its employees has remained is the intense competition between companies in Japan. If a company doesn't remain competitive, it can't afford to give its employees the benefits they need.

This competitiveness, consequently, is a strong factor in making employees loyal to their companies. If the company as a whole doesn't try hard enough, it could easily lose out to the competition. Thus, this sense of loyalty dominates the overall mood and atmosphere of the company and keeps up the old tradition.

#### **Global Operations**

Toshiba's inherent strengths and the broad diversity of its international operations have allowed it to respond effectively to the rapid appreciation of the yen against the dollar and other currencies since 1985. Toshiba's long history of overseas production was originally centred in countries with relatively inexpensive labour, Rapid technological change and progress, however, have led the Company to locate its overseas operations increasingly in the countries and regions that are the major final markets for its products—the U.S. and Europe, for example.

The international scope of Toshiba's operations will continue to allow it to respond rapidly and effectively to changing market conditions and technological developments, brought about by rapid progress in microchips and other key areas.

### At the Cutting Edge of Electronics

Toshiba enjoys a leading position in many electronics-related fields. The Company, however, is constantly moving forward in keeping with the pace of technological change to develop and implement new and exciting technologies. For example, Toshiba was the first company to begin mass marketing of one-megabit anickh

At Toshiba, we have traditionally held an excellent technology base in the heavy electrical engineering, power systems and consumer products fields. This served as the original base, which helped the Company diversify into other areas, such as information systems and electronics devices, as the needs of its customers in Japan and overseas changed.

Claric Recently, however, there have been more changes within industry in general, and one company cannot do everything. This has given smaller companies more room to survive. This was not the case in the past, at least in Japan.

Another question is that of creativity. Many people point to the scarcity of Japanese Nobel Prize winners in pure science, while-noting Japan's accomplishments in applications research.

Aoi: That is a very difficult question. Originally, Japan's industrial technology lagged behind that of the West. Japanese companies moved to catch up quickly, looking for fast results. This, perhaps, slowed the process of emphasising research in the basic sciences.

Japan faces a similar situation in education. Japan's educational system gives the same kind of emphasis, which many people point to as the reason why we receive so few Nobel Prizes. Recently, many people have realised the importance of training people to come up with new concepts, and emphasis is being placed on educational reform.

# Renewed Commitment to R&D

At Toshiba, we have steadily increased our spending commitment



microchips and is rapidly moving ahead with delivery of fourmagabit chips. This progressive approach will allow Toshiba to continue meeting the increasingly complex needs of its customers.

Also, recent breakthroughs in superconductivity are opening up vast potential for changes in the field of electronics and electrical energy. This will stimulate rapid development during the 1990s and beyond. Changes in technology require that we adapt

to basic research. The recent breakthroughs in superconductivity have convinced us that this is the correct approach. Currently, the Company has 25 researchers engaged in basic research on hightemperature superconductors. They are focusing on basic research and not on commercial applications.

In June 1988, we also established a new technology to make a flat uniform layer of superconductive thin film to be applied in future electronic devices. Also, Toshiba has developed a new method for resistless etching of very large-scale integrated circuits (VLSIs) using excimer lasers instead of conventional photoresist techniques. We hope that the excimer laser, a xenon chloride gas laser with a 308 nanometer wavelength, will be applied in a few more years, leading to higher yields of superhigh-density chips.

Clark: There is a need for this kind of activity and training. This mood hasn't caught on yet in Japanese society as a whole or even in the universities.

Aoi: That is most apparent in chemistry. Comparatively speaking, chemists are less numerous in Japan than in the West, and their role in Japanese industry has not been prominent. Japan's strength is still in applied science-making new and specific adaptations and uses for new base products developed elsewbere. This is a significant strength. If you were to ask some of the foreigners to do the same thing, they might find that it is not so easy. They will probably tell you to use it as it is. Japanese companies are characterised by their constant efforts to meet the needs of their customers. This approach needs to be adopted more extensively by companies around the world.

This commitment to meeting the needs of customers is the driving force behind our commitment to change. Saying that we lag behind in pure research and are strong at applied research is not criticism in itself. Achieving significant breakthroughs in pure research is inhetently difficult. But to take a breakthrough and to realise its full market potential is an equally challenging task. The difference between pure and applied research is often a very thin line. In superconductivity, for example, the original breakthroughs were made overseas, but since. then, many of the most significant breakthroughs have been made in Japan-some of them I am happy to say within Toshiba.

#### Advanced Research Facility Opened

You may not know, but in April 1988, Toshiba established its new Advanced Research Laboratory to conduct basic research, especially in the fields of superconductivity and bioelectronics. Success in these two fields will be pivotal to technological developments in the 21st century, and Toshiba is committed to effectively meeting the challenges posed by these exciting fields.

Clark: Recently, Japan has succeeded both in establishing a high standard of living and a high level of technology. It has caught up with the U.S. in a number of fields. Some people argue that if Japan tries hard enough it may also catch up with the U.S. in the fields of aerospace and space technology.

Aoi: Japan may continue to grow in these areas, but you have

to take into account the needs of the market, which could prove to be a dominant factor. Some markets grow almost indefinitely. while in others this is not possible. It would be very difficult for Japan to develop industries, such as aerospace and space technology, along the same lines as those in the United States. It takes a tremendous amount of capital to develop a single jet engine. This is considered a major task, even for U.S. companies. Undertaking such a task would be very difficult for Japan to do alone. The limits on growth in these industries are also an important factor.

Clark: Such moves are, of course, welcomed, but the fact remains that these manufacturing industries remain more Japanese than local.

Aoi: Even if the capital is Japanese and the technology is Japanese, the employees are local. So, I don't think that such a big gap between the countries remains. In the case of IBM in Japan, for example, its operations here are Just like those of other Japanese companies. By the same token, our operations in the U.S. are American, and our operations in Europe are European. Just because they are owned by Toshiba



Japan will probably not be able to grow by itself in these advanced technological fields. Japanese companies will more likely work in cooperation with overseas partners.

Even with advanced microchips, it can be very difficult for one company to succeed alone. At Toshiba, for example, we have teamed up with Siemens and GE to develop standard cell libraries, new semicustom devices.

Claric But, Japan is growing strong in space electronics.

Aoi: In electronics, yes, but in the space industry, Japanese companies face limitations because of the nation's stand on defense. We are working with the Japanese government in the satellite sector, for example, but this accounts for only a modest part of our total operations.

#### Localisation a Must

Clark: At any rate, increasing trade friction is having a major effect on the operations of almost every major Japanese company. How are you responding to this problem?

Aoi: As you know, expanding trade friction bas convinced us that it is not enough just to manufacture in Japan for export. Rather, we need to manufacture in the markets where our products are consumed. At present, we manufacture in such countries as the United States, the United Kingdom, France, and the Federal Republic of Germany. Almost all of the people working in these facilities were hired locally and have been trained to make high quality products.

here in Japan does not mean that they are "Japanese" If they do not conform to the local culture and environment, then they will fail. Their success points to the correctness of this philosophy.

In Europe, for example, our subsidiary Toshiba Electronics Europe, based in the Federal Republic of Germany, establishes the strategy for our European-based electronic components operations. Success cannot be achieved in any other way.

Clark: There is a sense of impending crisis in the United States and the countries of Europe owing to the weakening of their industrial bases. What advice can you give to these countries?

Aoi: Rather than giving advice, I think Japan has to provide aid to help solve the problems. Right now, the strength of U.S. domestic demand is supporting the world economy. Many have criticised the United States, but if it were not for U.S. domestic demand the world industrial structure might already have collapsed. From now on, we must realise economic growth driven mainly by domestic demand, which requires a reform of our industrial structure based on a global perspective. Japan and other exporting nations, including the newly industrialising economies (NIEs) need to foster domestic demand as much as possible so that they will be able to import industrial goods in larger quantities. Rather than advising the United States or the countries of Europe on how to solve their problems. Japan needs to roll ur its sleeves and belp produce lasting solutions.

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#### **OVERSEAS NEWS**

# Afghans blame Pakistan for Jalalabad failure

By Christina Lamb, recently in Jalalabad

AFGHAN resistance commanders are beginning to blame Pakistan's military intelligence, the ISI, for a disastrous plan to take control of Jalabad, Afghanistan's second most heavily fortified city, where the battle has reached stolerate with the party of the control of the contr stalemate with thousands of

An increasing number of Afghan guerrillas say the ISI pushed them into a battle they were not ready for and which, they say, may not be worth

Mujahideen commanders generally shared the ISI assess-ment that President Najibuliah's communist regime in Kabul would gain in credibility unless the resistance made progress soon after the Soviet troop withdrawal was com-pleted on February 15.

After an interim government representing some of the Muja-hideen groups was formed last month, the need to capture a city became more urgent to help vindicate resistance claims that they controlled 90 claims that they controlled 90 per cent of Afghanistan.

ISI regarded Jalalabad as the obvious choice, with communi-cations from Pakistan enabling them to direct operations. But many commanders were reluctant to launch s major attack on Afghanistan'e third most

resistance heavily populated city. Others argued that Kahul

Others argued that Kahul was the only city that mattered and e siege should be tightened round the capital.

When ISI put its Jalalabad plans to the resistance groups on March 2 there was much resistance. One commander said: "Why should we who have never lost a wer take advice from people who have never won one?" never won one?

But for the past year, ISI has often by-passed the resistance parties, setting up a network of some 400 commanders who agreed to carry out specific operations for ISI in return for

The success of the initial attack from the south-east of the city was halted by bombing and artillery. Since then, the Mujshideen have been entrenched in a battle which has seen the war's highest two-week death toll.

As it became clear that the Mujahideen had been pushed back on some lines, leaders of three of the most extreme fundamentalist resistance groups decided at the weekend that decided at the weekend that Jaialabad must be taken whatever the cost.

The resistance claims to have 12,000 men in the Jalala-bad area. Renewed and bitter battles are expected this week

Recruit, the company st the

centre of the political scandal.

The elections came as the popularity of Mr Noboru Tak-eshita, the Prime Minister, plunged to an all-time low

ecause of the scandal, involv-

ing allegations of influence-peddling by Recruit, and criti-cisms of his party for its sup-port of a new sales tax.

With 99.5 per cent of the bal-lots counted late yesterday in Chiba, Mr Numata, 66, had

received 969,221 votes, while his opponent, Mr Shoji Ishil, supported by the Japan Com-munist Party, had received 783,280, officials said.

#### LDP wins election in Recruit scandal test

MR Takeshi Numata, hacked by the ruling Liberal Democratic Party (LDP), won a third term as governor of Chiba, Tokyo's eastern neighbour, yesterday in one of two elec-tions viewed as a test for the scandal-plagued party, AP reports from Tokyo.

In Miyagi prefecture in nor-th-eastern Japan, the Socialist Party candidate, Mr Shuntaro Honma, easily won election as governor after the Liberal Democratic candidate, Mr Kazuo Aichi, withdrew.

Mr Aichi quit the race after more than Y7m (£31,000) from

#### **Opposition** claims 'win' over Gandhi report

By K.K. Sharma In New Delhi

INDIA'S opposition parties are claiming a "major victory" with the decision by Mr Rajiv Gandhi, the Prime Minister, to publish a controversial and secret report by a commission into the circumstances around

the assassination of his mother, the late Mrs Indira Gandhi, by her Sikh security guards in October, 1964.

The demand for placing the report before Parliament last week led to the higgest contraction between the Gove frontation between the Gov-ernment and the Opposition and culminated in the suspen-sion of 63 members in the Lok

sion of 63 members in the Lok Sabha (lower house).

The demand for making the report public followed the pub-lication by the Indian Express of what it said was a part of the report implicating Mr E K Dhawan, Mrs Gandhi's main aide, in the assassination. Mr Dhawan was dropped by Mr Gandhi soon after he hecame Prime Minister in 1984 but was reappointed as a sentor aide recently.

Mr Gendhi's surprise

Mr Gendhi's surprise announcement that the report would be presented to Parliament on March 27 came after a week of turmoil in Parliament when the Government's spokesmen took what seemed to be a determined stand that the report would never be pub-lished. Powers in keep it secret were taken by the Government soon after the report was presented by Mr Justice Thakker

three years ago. Mr Gandhi's change of mind on making the report public has been taken because, he said, "a version of what is alleged to be stated in a por-tion of the report" had been published in the Press and this was fuelling "malicious innu-endo and irresponsible charac-ter assassination".

Mr Gandhi's advisers decided the Government would seem to have something to hide, if the initial decision not to publish was adhered to.
Officials let it be known that
a special investigation had established Mr Dhawan was not involved in either "the crime or conspiracy leading to the assassination of the late Indira Gandhi",

# Political confusion hits S Korea

By Maggle Ford in Secul

SOUTH Korea was engulfed in political confusion yesterday as rival political parties cam-paigned both for and against holding e national referendum on the performance of the Pres-

ident.
In a dispute which is rapidly reaching the level of farce, Mr Kim Dae Jung, the main Opposition leader, demanded that the referendum be put off on the grounds that it would be confrontational and threaten national stability. President Rob Tae Woo, who

promised the referendum during his election campaign in
1987, reached agreement with
Mr Kim two weeks ago that
any referendum should take
the form effectively of a
national opinion poll, which
would not affect his tenure.
Hardliners in Mr Roh's party
are insisting that the Presiare insisting that the Presidency should be at stake in the referendum.

Their views are supported, paradoxically, by Mr Kim Young Sam, the second Opposition leader, who is leading a strong campaign against Mr Roh's leadership, which he believes is holding up democ-ratisation in South Korea. Moderetes in the ruling Democratic Justice Party are

reported to be desparately seeking a way round the refer-endum dilemma, which they fear will lead in a confrontation with hardliners who wish to slow or reverse the democratisation process.

The Korea Bar Association

has ruled that e referendum on President Roh'a tenure is unconstitutional. A week ago, the Supreme Court overturned the election of a ruling party MP in last year's National Assembly vote on technical grounds, opening the way for a by election.

taken up the by-election option as a way of testing public opinion. The strength of the ruling hardliners was shown last week, when Mr Kim Yong Gap, a Cabinet Minister and former

military officer, resigned in protest at "the rise in radical leftism in South Korea."

In an implicit criticism of Mr Roh's rule, he claimed many people felt the need to assess the President's term. Mr Kid as commented with the resident's term. comments were interpreted as an effort in force President Roh to return in the policies of his predecessor, Mr Chun Doo Hwan. Mr Roh has received support in his apparent efforts to avoid confrontation from Mr

to avoid confrontation from Mr
Kim Jong Pil, the third Opposition leader, as well as Mr Kim
Dae Jung.

Both leaders believs the
country ahould proceed with
clearing up the investigations
into the former regime before

# US bans imports of some Hyundai memory chips

By Louise Kehoe in San Francisco

AN ORDER banning imports of certain types of memory chips made hy Hyundai of South Korea has been issued by the US International Trade Com-

mission.

The order is part of a final ruling on a trade complaint filed in 1987 by Intel Corporation, a major US semiconductor chip maker.

In its complaint, Intel claimed that Hyundai's Erasable Programmable Read Only Memory (EPROM) chips violate several of its patents.

Intel is the leading US manufacturer of EPROMs and holds about an 18 per cent share of

about an 18 per cent share of the \$1.8bn (£1bn) world market for the chips, industry analysis

said.

EPROMs are widely used in personal computers as well as in several types of consumer electronics products to store

programs and data.
The FTC ruled that Hyundai. The FIC ruled that Hyundal had engaged in unfair trade practices by selling chips that violate some of Intel's patents.

The case is believed to be the first in which patent violations have been alleged to constitute unfair trade.

The ruling may set an impor-tant precedent for US chip

tant precedent for US cmp
makers who are involved in
several disputes over patents
and copyrights with Asian
competitors.

Also covered by the FFC ruling are Hynndai's US distributors and small US-based companies that designed Hyundai's
EFFC Me.

EPROMS.
Intel said the FTC's "cease and desist" order prohibits the companies from bringing Hyundai's EPROM chips, or products containing those chips, into the US.

# Community spirit — crime of the intifada

Andrew Whitley, recently in Nablus, meets a victim of the Israeli crackdown

JINAN al-Bitar was a well-known person in Nablus, the largest city in the West Bank, even before she went to jail. Unmarried, she had devoted most of her 46 years to doing good works in her community.

She was also read to the devoted to three months imprisonment and s fine of about \$3,000, at her trial the judge acknowledged there

She was vice president of the Women's Federation, executive director of the local branch of the Red Crescent, the Palestin-ian equivalent of the Red

Cross, and treasurer of its cen-tral committee for the West Bank, member of a committee for handicapped chil-dren . . . the list went on and The Shin Bet secret police must have had their eye on this flinty, stern-faced woman

for some time. In 1982, she had been banned from teaching at a local secondary school, for "security reasons" she was It was her role as the Red Crescent's treasurer, a sensi-tive post which involved han-

that got her into trouble again last May.

At the time there was a crackdown on funds being transferred from abroad, the oxygen of the Palestinian nprising then in its sixth month. So, when Israeli sol-diers raided her house one morning and found over

imprisonment and s fine of about \$3,000, at her trial the judge acknowledged there would have been no case to answer if it had not been for

the uprising.

Denying that she had been involved in anything illicit, Ms.
Bitar claimed that the money had been brought to ber directly from Mr Marwam Dou-din, then Minister for the Occupied Territories in the Jordanian Government.

For years, e joint committee made up of Jordanian officials and representatives of the Pal-estine Liberation Organisation in Amman had disbursed funds in many individuals and bodies in the West Bank, including the Red Crescent, without interference from the Israeli authorities.

Last month, looking pale and

drawn, she was released after serving nine months in prison. The original sentence had been prolonged by the Ministry of Defence, by slapping an admin-istrative detention order on her immediately before the judicial sentence was due to expire.

As Amnesty international, which adopted Ms Bitar as a prisoner of conscience, points



A Palestinian woman covers her face as an Israell soldier sprays her with Mace after a stone-throwing incident in the West Bank

out, the purpose of administra-tive detention is meant in be preventive rather than puni-

Although women have played, by traditional Arab social standards, a remarkably active role in the intifada, as the uprising has become known, very few have been

Out of the six thousand or so Palestinians currently in detention, less than 50 are women. Only four are considered as hard-core organisers detention, for which no trial is

For Ms Bitar, conditions in Hasharon Prison had bordered on being harsh. Israeli common criminals were treated much better, she claimed.

But, aware of the revered status of women in Palestinian society, in general the authori-

ties have appeared careful to treat female activists with

restraint.

"If they apply the same behaviour to women as they do to men, there will be a much more violent reaction. It will be like hell," exclaimed Mr Massadag al-Masil, a relative.

Over the past weeks, an endiess stream of friends and relatives have called at Jinan al-Bitar's large honse, in a well-to-do suburb of Nablus, to welcome her back.

relcome her back. Her black hair cut short in a prison crop, her lined face unmade up, she would rise every few minutes to greet another group of society ladies dressed in their party best. Had she been singled out as a deterrent, or warning, to others? "Yes, maybe, maybe so," shs smiled. Not that her resolve had been weakened by the experience. The one thing she said she was amaious to do was to resume her work, in all

its aspects.

Amid the brice-brac of a typical Palestinian home, the only sign of her political commit-ment was a wall map of Pales-tine, covering the whole of the old, pre-1948 Mandate territory. Emblazoned on it was the PLO's flag. Outside in the weak spring sunshine an orange tree was in prodigious bloom.

# SIEMENS

# Siemens helps to keep The Royal Ballet on their toes at home and on tour.

When The Royal Ballet is on tour, all the world's a stage; but unfortunately every stage they encounter is dillerent.

So sets designed initially for productions at their Covent Garden base often need

adapting at short notice. Which is where Siemens steps in.

Siemens high speed facsimile terminals

have been installed at The Royal Opera Hous production office and at their scenery studio and

workshop in London's East End. So whenever modifications are needed, they can be drawn on the original plans and faxed between the two locations - or wherever in the world companies based at the Royal Opera House are performing - thus

reducing the likelihood of mistakes and saving time and money.

> So when The Royal Ballet recently took seven productions to Australia. they were left free to perfect heir performances, safe in the knowledge that Siemens perform-

ance was smoothing their path every inch of the way. For further information, please telephone 0932 785691.



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# RK

According to the Royal College of industrial disease.

They estimate that 50 million working days are lost every year due to the effects of smoking.

It isn't just smokers themselves who are laid off, it's non-smokers too.

TO THE PERSON NAMED OF THE

Breathing other people's cigarette smoke (passive smoking) can cause headaches, nausea, stinging eyes and sore throats.

It can aggravate respiratory problems like asthma and bronchitis.

It can even cause lung cancer.

Despite all the evidence, many employers

are still reluctant to introduce smoking restrictions at work.

Ironically, they think it would create an even worse atmosphere than the smoke itself.

Recent research suggests otherwise.

An NOP survey\* shows that 8 out of 10 smokers agree with the statement: "In general,



people who don't smoke should have the right to work in air free of tobacco smoke."

Clearly, potential conflict between smokers and non-smokers is over-estimated.

In recent years, many companies have successfully established a smoking policy at work. Their experiences are well worth reading.

The Health Education Authority has

published a book called "Smoking Policies at Work."

It outlines several case studies, including

those at Private Patients' Plan, Gwent County Council and Iceland Frozen Foods.

It also sets out ways and means of tackling the problem.

How to prepare for action.



How to arrive at the best policy for your own workplace.

And how to implement it.

The book, which costs £5.50, can be



obtained via the coupon below.

We urge you to send for a copy today.

A healthier place to work is a happier place to work.

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#### **OVERSEAS NEWS**

# Ceausescu seeks to snuff out party dissidents' spark of protest

An open letter is facing Romania's strongman with one of his biggest challenges since he assumed power, Jonathan Eyal writes

PRESIDENT Nicolae 1979. Ceausescu of Romania is Pr currently facing one of the most severe political challenges to his rule since he assumed power in 1965.

In an open letter published last week, veteran communist party members took Mr Ceausescu to task, accusing him of destruction of Romania's econ-omy and agriculture which amooots to a threat to the "biological existence of the natioo", the terrorisation of the country's population and the forced assimilation of its

ethnic minorities. The signatories of this public protest represent an impressive array of high-ranking party and state figures.

Topping the list are Mr

Gheorghe Apostol, a man who briefly led the party as First Secretary in 1955, Mr Alexandru Birladeanu, who chaired the State Planning Committee, and Mr Constantin Pirvulescu, a founding member of the party and chairman of its Controi Commission for almost 20

Some of the signatories, notably Mr Pirvulescu and Professor Silviu Brucan, have challenged Mr Ceausescn before. Mr Pirvulescu attacked Romania's president for his personality cult during the Twelfth Party Coogress in

Prof Brucan, a former acting editor of the party daily and Romanian ambassador to the UN and the US, used Western media to warn against Mr Ceausescu's policies after workers rious in the city of Bases in Monthly 1967 How Basov in November, 1987. However, nevar bafore had Romania's president experi-enced such a sustained and co-ordinated attack from party

At first glance, it would appear that President Ceanseacu should have no trouble in dismissing the protest as a final gasp of disgruntled and long-dismissed party veterans: Cheorghe Apostol is 77, Mr Pirvulescu is 94 and both have drawn their party pensions for many years.

many years.
Their protest against the interception of mail, the disregard of workers' interests and the harassment of the populathe narassment of the popula-tion by the ubiquitous secret police would also elicit a hol-low ring, for the application of terror as an instrument of social cootrol did not start with Mr Ceausescu; it had actually been applied during their own stewardship in

to Mr Ceausescn's regime remains very real and serious.

drafted and its signatories deftly chosen. President Ceau-seson always listed the initiation of his country's policy of independence within the Warsaw Pact as his personal

achievement.
The implication of this claim was that, regardless of present economic hardships, only the continuation of Mr Ceansescu's policias could safeguard Romania's national self-esteem and prevent interference from the Soviet Union.

The dissident party members are seeking to remove the man-tie of Romania's nationalism from Mr Ceausescu's shoul-ders. One of the signatories to the open letter is Mr Corneliu Manescu who, as Foreign Min-ister in the 1970s and president of the UN General Assembly, helped to spearhead Romania's

opening to the West.

The signatories also carefully point out that Mr Ceausescu's abuse of nationalism has resulted in the alienation and mass emigration of the country's ethnic Germans, Jews and Hungarians. Finally, they forcefully remind the President that his foreign policy gains are now a thing of the past, since "all the leaders of the non-communist nations of Europe refuse to meet with

Most significantly, the open

letter is clearly intended to become a rallying cry for the support of other influential Romanians and, as such, it may provide a possible spark for a wider opposition to Mr

While its signatories are careful not to call for the President's removal, they do sug-gest that, since his Government's inaptitude and incompetence at solving the country's problems is already manifest, cosmetic improve-

ments will no longer do.

The most interesting passage in the letter relates to the Securitate, Mr Ceausescu's dreaded security service and

dreaded security service and important supporting pillar.

The signatories state that this service was created "to defend the socialist order against exploiting classes" and charge Mr Ceausescu with turning the security forces against workers and intellectuals

By implying that the Securitate was not created to defend only one ruler and by suggest-ing in the same breath that the security services to have an important role in Romania's society, the dissidents may be attempting to convey to the security services themselves that the security services themselves that the security services to have an important role in Romania's society, the dissidents may be attempted to security services to have an important role in Romania's society, the dissidents may be attempting to convey to the security services the security security services the sec that their currently privileged position is guaranteed, and that its senior commanders

may not necessarily suffer ret-ribution should they abandon their support for Mr Cean-

It is essential to remember that the signatories of this pro-test are dissidents of a very special kind. They demand the abandonment of current poli-cies aimed at the destruction of villages and a general improvement in the condition of ordi-nary Romanians.

These are considered neces-sary not in order to transform Romania into a pluralist soci-aty, (of which there is no men-tion), but in order to save socialism and preserve the party's monopoly of power. In practice, their pleas

amounts for an enlargement of the circle of rulers from one man (and his wife) to a collec-tive leadership more akin to their version of "real social-Within the context of Mr

Ceausescu's rule, which entailed the destruction of most independent intellectual activities, this is probably the best that could be expected.

Their protest has two major aims. In the area of economics, the open letter suggests an (albeit vague) alternative to Ceausescu's investment poli-cies. This is particularly impor-tant at the moment, for Romania is at a crucial eco-

The elimination of the counsescu's obsession, born out a desire to retain "true independence". To this end, only were all imports forbidden, but a large share of the country's in complete disregard of the interests of the population.

nomic juncture.

Mr Ceausescu has just announced that the policy of investment in the country's hugely inefficient heavy industry would continue; the party dissidents argue that this must be stopped and the interests of tha Romanian coosumsrs should be taken into account.

In the political field the

In the political field, the most important aim of the pro-testers must be to stem the rise of Mr Ceausescu's wifa Elema and the possibility of a family succession. Elena Ceausescu's own favourite courtiers are much in evidence and the President's wife, who enjoys her own personality cult, is increasingly influential in party and state decisions.

While the aims of the letter are clear, its practical effects are more difficult to predict. The Soviet Union, now keener than ever to avoid any explosion of popular protest in any East European state, will no doubt take heart from the fact that the only effective opposi-



Cognisescu: taken to task by veteran party members

tion to Mr Ceausescu is still tion to Mr Ceansescu is still contained within the party.

Moscow, however, is still likely to retain only marginal influence over the Romanian political succession. The final outcome would depend to a large extent on the dissidents' ability to harness support for their platform, especially their platform, especially before the forthcoming Four-teenth Party Congress sched-

uled for this year. The first indications are that Mr Ceausescu is aware of the challenge. He is tackling the

problem by isolating the let-ter's signatories and arresting their immediate family depen-dents, one of which has already been charged with spying for "a foreign power".

Whether this will be enough
to contain the debate remains

to be seen. One thing is cer-tain: the options available to Romania's stroogman are being increasingly narrowed.

Jonathan Eyal is assistant director for studies, Royal United Services Institute for Defence Studies, London.

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# Portugal slams on the financial brakes

By Diana Smith in Lisbon

AFTER EIGHT months of raging inflation that reached 122 per cent in February and three years of unrestrained consumptioo, Mr Miguel Cad-ilhe, Portugal's Finance Minister, has slammed on the

brakes. At the weekend, be announced sweeping measures to try to cool inflation and con-\$5ho (£2.7bo) trade gap, the worst in seven years, that showed a balance of payments deficit for the first time in four years of shown The months years, of \$400m. The measures

A ban on hire purchase of clothing and gadgets such as

Downpayment of 50 per cent
on hire purchase of cars of less
than 1400cc and full payment

• A ban on passenger car

Cash down in full for pas-senger cars of more than

 Compulsory bank reserves of 17 per cent of all deposits;

• Moothly rather than bimoothly official credit ceilings, followed up fortnightly to make sure they are obeyed.

• A ban on foreign borrowing by the public or private sector

sector foreign borrowing has grown rapidly;
• An end to foreign currency swap operations that permit new Portuguese or foreign banks to increase lending

that is not previously authorised by the Bank of Portugal.

• A 4.33 per cent maximum annual interest on current accounts aimed at reducing

• Liberalisation of mortgage

unveiled two days after February's I.3 per cent monthly inflation rate was revealed, is Mr Cadilhe's first admission of the hollowness of his claim that Portugal could reconcile consumer-fuelled growth with low inflation.

While demand raged, production, though growing, could not keep up. Imports soured; their inflationary impact mounted as 1985-87's cheap dollar and commodities faded. The inflationary public debt (75 per cent of \$40bn GDP) swelled through EC-related infrastructure investment and public cor-

poration losses.

Above all, inflationary expectations took off in mld-1988, when the public, seeing infla-tion rise, stopped believing government promises of 6 per cent year-end inflation. In

December, inflation hit 11.4 per

Mr Cadilhe's new credit strictures dashed hopes that 1969 will be the year when official ceilings end. He has apparently won his three-year-long battle with Mr Jose Alberto Tavares Moreira, the Governor of the Bonk of Portropal who of the Bank of Portugal, who fought for liberal, market-driven credit regulations.

The Governor, seemingly tired of the uneven struggle against unveikling state inter-vention, is reported to be leav-ing his post this spring and returning to a less frustrating private sector. Bankers meanwhile feel

credit ceilings have proved to be ineffectual tools against inflation and are a serious impediment to the strengthening of Portugal's financial sys-tem in time for the 1992 Single Market.

#### SHIPPING REPORT Vice-chairman

#### of Ford Europe to retire

By John Griffiths

ONE of the best-known motor industry figures in Europe and the US, Mr Waiter Hayes, is to retire on May I as vice-chair-man of Ford of Europe and a vice-president of Ford Motor

Company.

Mr Hayes, 64, whose career with Ford has spanned 27 years, was also well-known in UK journalism. He was associate editor of the Daily Mail and editor-in-chief of the Sunday Deposits at the case of 22 Dispatch at the age of 32. He joined Ford as its public affairs manager in Britain in 1962 and became vice-president of public affairs for Ford of Europe six years later.

Since then he has held senior Ford positions in the US, West Germany, Switzer-land and Belgiam, playing a pivotal role in developing Ford's motor sport activities.

#### **Tanker rates continue weak**

By Kevin Brown, Transport Correspondent

RATES continued to be weak in the tunker market last week

as buyers responded to rising oil prices by delaying pur-chases until the price stabi-Demand for tanker tonnage continued to decline but the number of ships awaiting employment in the Middla East remained relatively steady.

Brokers said this was partly because some tonnage was

because some tonnage was absorbed by a number of private fixtures. Ships of around 250,000 tons deadweight were being fixed from Iran to the Red Sea at New Worldscale 34/ 35 and around New Worldscale 33 to the East. A US oil company was said to have fixed a vessel of 220,000 tons from the Gulf to Singapore at New

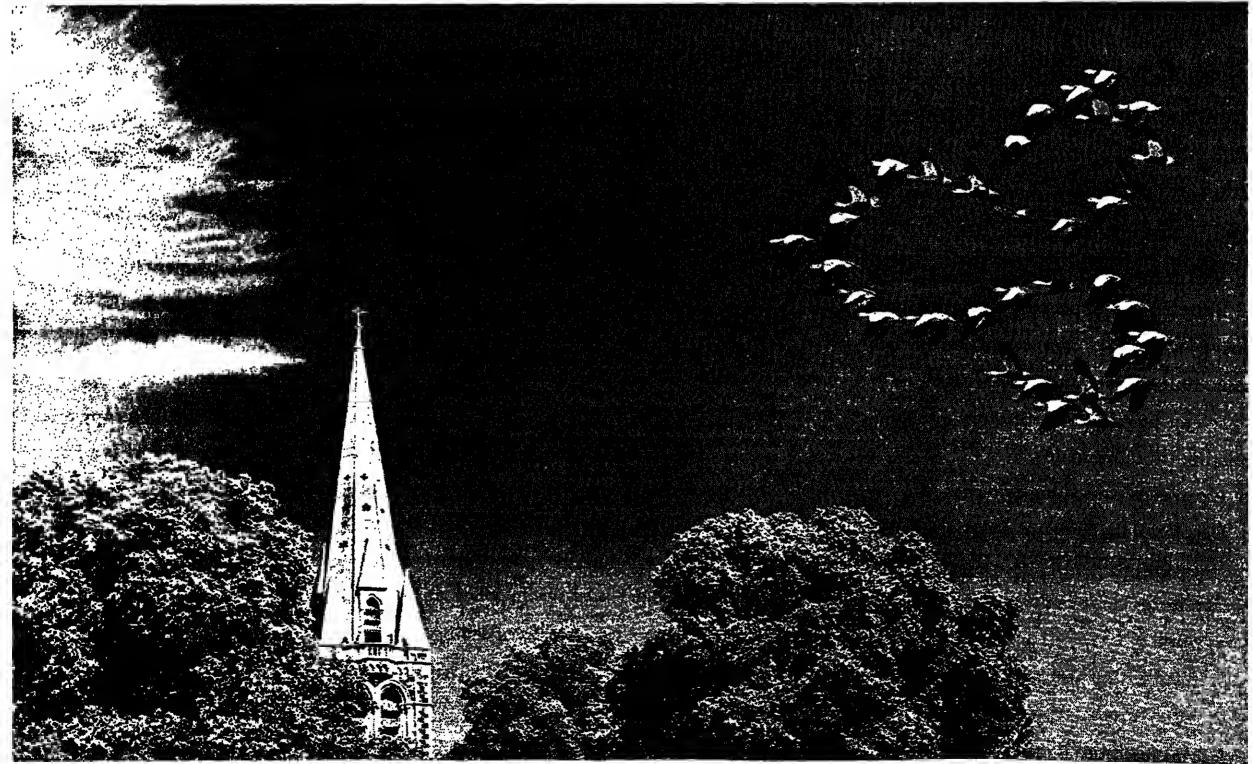
Rate levels also fell in West Africa, where a ship of 126,000

tons was fixed to Spain at New Worldscale 67% Worldscale 74 for the cross-The picture was slightly brighter for owners in the Med-iterranean, where a ship of 130,000 tons was fixed at New

Mediterranean voyage, and a VLCC was fixed at New Worldscala 371/4 to the US Gulf. Rates were more or less static in the

WORLD ECONOMIC INDICATORS RETAIL PRICES (1980=100)					
W. Germany	125.0	124,6	123.3	121.8	2.6
Italy	231.0	229.2	227.A	217.9	6.0
Netherlands	123.5	123.2	124.4	122.4	0:9
Japan	116.3	116.5	116.5	1149	1.2
Belgium	148.7	148.1	147.5	145.0	2.6
					% charige over
	Jan '89	Dec. '88	Nov '88.	Jan '88	previous year
UK	166.1	166.0	184.6	154.5	7.5
France	175.0	174.0	173.7	169.4	3.3
USA	147.0	146.3	145.8	140.4	4.7

# THAI FLIES SOUTH FOR THE SUMMER. TO CHRISTCHURCH, NEW ZEALAND.



Christchurch in New Zealand's South Island - the most English city outside of England. And aprly named the "Garden City" with its award-winning landscaped parks. Now you can enjoy Thai's Royal Orchid Service to this tranquil city direct from Bangkok each Wednesday arriving the following day. Thai Centuries-old traditions. Impovative thinking. State-of-the-art technology.



spending big

amounts on

THE Department of Trade and

Industry's spending on public-ity will continue at the present

high level into the early 1990s.

setting out the requested allo-cation for the publicity budget, sought as part of the depart-ment's overall request for allo-cation in the 1989 public spend-

ing round, puts spending plans at about \$27m for each of the

next four years.

Lord Young, Trade and industry Secretary, has raised the department's public profile with television and press advertisements, and with brochures. MPs criticised his publicity budget but he appears undeterred.

None the less, the plans are

undeterred.
None the less, the plans are for iower levels than the department wanted initially. The initial request for the financial year beginning next month was for \$29.6m, against the £29m that the department will have spent in 1988-89. The floure agreed was trimmed to

figure agreed was trimmed to £25.6m. In the light of that, the request for the following year has been cut, but a small rise,

to £27.8m, is planned for the

An internal memorandum

publicity

By Hazel Duffy

# IBA may allow friendly bids for ITV companies

By Raymond Snoddy

THE independent Broadcasting Anthority is prepared to accept friendly takeovers of ITV com-panies before their present franchises run out at the end

The anthority believes it would not be right to block antomatically proposals designed to strengthen an IIV company in advance of the competitive tendering process by which commercial televi-sion licences will be allocated next time round.

next time round.

Such takeovers would have
to be supported by the executives of the ITV company.

Friendly takeovers will not
be considered until 1990 when
the IBA gives way to the Independent Television Commission, the new commercial television regulatory body.

vision regulatory body.

Until now the IBA has ruled that an ITV franchise holder may not be taken over in midfranchise. That prevented Mr Michael Green's Cariton Com-munications taking over Thames Television even though the main shareholders, Thorn EMI and BET, were will-

ing to sell.

Mr George Russell, IRA chairman, is determined to have a period of stability while the Government's planned broadcasting bill goes through

ue weak

OMIC INDICATED

ALAND



George Russell: determined to have a period of stability

awarding of franchises.

In evidence to the Home Office on its broadcasting white paper to be published tomorrow, the IBA asks for a two-year moratorium on hos-tile year moratorium the begin-ning of new 16-year franchises which start on January 1 1933. After that, the IBA concedes the market should be allowed to take its course.

The IBA document, already being seen by the Government as "very interesting," tries to go with the grain of govern-ment proposals as far as possi-ble but is critical of some white Plans for privatised regional transmitter companies are attacked instead, the IBA suggests hiving off its transmistion system but as a national

network.

The IBA also believes the The IBA also believes the independent Television Commission should have responsibility for creating a national Channel 3 programme network, something the Government said should be left to the companies themselves.

There is also backing for Chamel 4's preferred version of its own future — as a subsidiary of the ITC, selling its own air time but with minimum financing guarantees to protect its programming remit.

Most important, the IBA has

put forward an alternative to the Government's proposals for "brown envelope" highest-hid anctions of franchises after a graffity thresheld quality threshold. quality threshold.

The IBA proposal involves an element of bidding – applicants will have to say what percentage of their revenue they are prepared to give to the

Treasury in addition to paying an independently assessed annual rental fee. The combination would be a substitute for the present levy.

Built into the process, however, would be rigorous assessments of an applicant's business. ments of an applicant's busi-ness plan and particularly the

following year.

The department's information division, in support of the request, predicts that in particular the cost of advertising will rise faster than inflation. The single biggest call on the budget is the publicising of the Enterprise Initiative. That campaign was launched in Jan-Young turned the department into "the dti, the department for Enterprise". The advertising is aimed at telling business wheat aid offered by the department. about aid offered by the depart-

The 1992 campaign, which has been designed to increase awareness of the single European market, will continue to 1992, although spending will stibs

The department says actual allocations will depend on the progress of current publicity

campaigns.
Provision is being made for the expected increase in demands on the publicity budget from the executive agen-cies Lord Young plans to estab-lish as part of the Next Steps

# DTI to keep Inflation nerves and pessimism over rates beset economists

By Raiph Atkins, Economics Staff

CITY ECONOMISTS are nervous about the outlook for inflation and pessimistic about an early cut in interest rates, according to reports published by securities houses at the

Last Tuesday's Budget w necessarily cautious, but did little to calm fears about cost pressures and higher interest rates around the world, the economists say.
Attention this week is likely

to focus on figures for February's retail price index to be released on Thursday and widely expected to show the annual inflation rate approach-

ing 8 per cent.

UK share prices fell steeply last Friday after much worse figures than expected for US factory-gate prices. They heightened fears that US interest rates will rise, with knock-on effects on domestic

Mr Gwyn Hacche and Mr Keith Skeoch, economists at James Capel, say the latest fig-ures on UK labour costs "cast grave doubts" on the Treasury's forecast of 5% per cent inflation by the end of 1989. They say even a slowdown in earnings growth will not offset the lower growth in productivity as the economy slows down. Wages per unit of output are likely to continue to grow

are neary to commune to grow at more than 7 per cent a year.
"In the light of the strong inflationary pressures in the economy," they say, "we now think only one cut in mortgage rates is likely this year, we had previously pencilled in two." Economists at Barclays de Zoete Wedd say the Budget

Economists at naturals at Zoete Wedd say the Budget will bring domestic demand under control and Mr Nigel Lawson, the Chancellor, will not be pushed into easing policy. "Monetary and fiscal policy will stay tight: we have pushed out the prospects of a base rate cut from May/June to

starting from such a low base. One reason for the slow take-up is that engineers are

often cautious about using new materials in untried applica-

tions because of safety and reli-

ability factors. Another is that the timetable for introducing

new materials is much longer

than some forecasts enggest.

Traditional materials are also

relatively cheap and are being

New Engineering Materials Sector Review. West Midlands Enterprise Board, Wellington House, 31-84 Waterloo Street, Birmingham B2 5TJ. 220.

the autumn."

Mr David Kern, chief economist at National Westminster
Bank, says the Budget was "very cautious, almost timid." He argues that growth in MO, the narrow measure of the money supply, is likely to

return within months to its 1-5 per cent target range set by Mr Lawson, while sterling should remain resilient.

He says: "As the slowdown in the economy becomes more pronounced, base rates will be down to 12% per cent by the middle of the year and 10% per cent by end-1989. Sterling will fall in a controlled manner to below DM 3 towards the end of

Mr Mark Cliffe, chief economist at Nomura, says: "Interest-rate reductions will depend as much on signs that the deterioration in the current account is being stemmed as on evidence that domestic inflation pressures are abat-

He says neither Thursday's inflation figure nor next week's trade figures are likely to give grounds for lower rates until the second half of the year.

Mr David Smith, economist at Williams de Broe, says the Budget failed to tackle the root causes of excess demand and missed the chance to improve the economy's supply side.

#### IRA must be defeated. Molyneaux says By Our Belfast

MR JAMES MOLYNEAUX, leader of Ulster's Official Unionist Party, has ruled out any hope of immediate politi-cal progress in Northern Ireland and called on the Government to concentrate on defeating the IRA. Addressing the annual meet-

ing of his party's ruling coun-cil in Belfast at the weekend, Mr Molyneaux criticised those who had been advocating talks to end the violence. He said that while Mr Tom King, Northern Ireland Secretary, attempted to engineer inter-party dialogue, the reality was that there could be no solution because the age-old divisions would not heal quickly. He said: "You cannot ignore

divisions by forcing a shotgun marriage between those who are British and those who with varying degrees of enthusiasm — are attracted to ideals of Irishness."

#### **BR** Channel mission meets Kent resistance

By Rachel Johnson

BRITISH Rail's first move to promote the high-speed link to the Channel tunnel to Kent residents met stiff resistance at the weekend.

The team from BR, led by Mr John Welsby, internation director, was not surprised to confront a thousand chanting protesters outside County Hall, Maidstone, before facing selected pressure-group spo-kesmen within. Some of the loudest boos, however, were reserved for Kent County

While BR was predictably accused of incompetence, intransigence and arrogance during the meeting, Mr Tony Hart, council leader, drew accusations of a different sort.

Mr Larry Becker, of South Darenth, which will lose 350 out of its 9,000 homes to blight, led the protesters' reac-tion to the "rall-link promo-

tional exercise".

"Did you go to South Derenth before or after you

cooked this up with British Rail?" he asked Mr Hart. Protest groups rejected Mr Hart's claims that BR had sen-sibly followed his "shopping list of criteria" to produce a

friendlier route.

Mrs Allison Wainman.
leader of the Democrat group,
supported them. BR had not
suddenly decided, at Mr Hart's behest, that there should be a new, "environmentally sensitive" realignment. The "new route had been decided, not 10 days ago, but five months ago, at secret meetings between BR and the council which had set up a confidential "High Speed Rail Link Working Group.

She supported groups' claims that the council was "an upper-crust Tory outfit" that had failed Kent residents by giving "any sort of wele" to BR's plans.

Mr Hart's assurance that he was "not selling Keut down the river" will be tested at the council elections in May, she predicted. "BR will find things will no longer go their way in Kent County Council," she

As far as residents are concerned, things will never go BR's way if they can possibly help it.

#### Mr Russell also wants a quality of programmes.

Moore rejects family benefit criticism

By Philip Stephens, Political Editor

MR JOHN MOORE, Social Services Secretary, yesterday rejected Labour charges that the Government had reduced the numbers of people eligible for Family Credit, the key benefit aimed at helping poor families.

lies with children. A political row over the ben-efit erupted at the weekend after Mr Moore released new government figures showing that the number of families eli-gible to receive it was far less than previously thought. The Opposition said the move marked another attempt by the Government to reduce the cash

apply for Family Credit with a conference of social security officials from around the country. It will be followed in about two weeks with the start of a 27m advertising campaign to explain the benefit to potential

The political significance lies in the fact that the Government argued stremously last year that the much closer targeting of Family Credit towards the most needy families provided a clear justifica-tion for its decision to freeze the value of child benefit.

Since then, however, the offiavailable to the poor.

Mr Moore will today mark
the start of a campaign to
encourage more families to

cal figures have shown that
only a relatively small proportion of eligible families — 30 to
40 per cent — has been taking

up Family Credit. That has encouraged a number of Con-servative MPs to join with the Labour Party in demanding that the Government should reverse last year's decision to ze child benefit.

However, Mr Moore argues that the new analysis suggests that the take-up figure has been artificially depressed by an initial overestimate of the numbers of eligible families. That figure was originally put at 750,000 but is now thought to be closer to 500,000.

The analysis suggests that during 1988 about half the fam-ilies eligible received Family Credit, while about 65 per cen of the potential expenditure

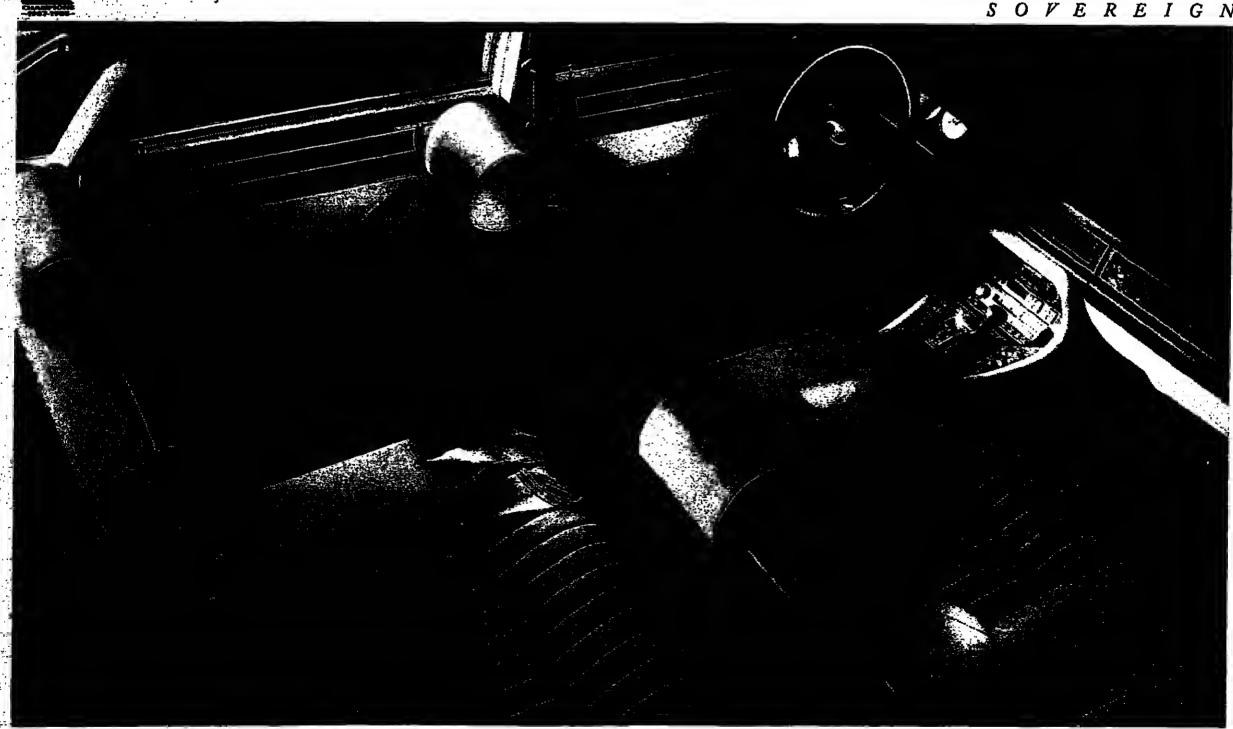
#### metals 'is exaggerated' By Richard Tomkine, Midlands Correspondent FEARS THAT Britain's traditional metal-forming industries are under imminent new materials have a range of properties that can improve existing products. They have existing products. They have particularly good potential in the automotive, electronics and aerospace industries. Yet the growth in take-up is limited to 7 per cent to 20 per cent a year, the report says, and is unlikely to threaten the dominance of metal products for some time because it is threat from the development of new engineering materials such as ceramics are exaggerated, according to a report by the West Midlands Enterprise Board. for some time because it is

New materials' threat to

Metals especially steels will remain the overwhelm-ingly dominant engineering material in the short to medium term, the study says.
However, it warns that
Britain is in danger of being
left behind in the race to
develop new materials by its failure to invest adequately in research and development. The report comes in

response to fears that the wider application of plastics, ceramics and advanced composites might affect the West Midlands region, which has the highest concentration of metal-based manufacturing indus-

try in Britain.
It acknowledges that the



ONE OF THE WORLD'S MOST COVETED PERFUMES.

Sitting in a Jaguar for the first time is an experience that's not easily forgotten.

As the door is eased shut, the reassuring aroma of fine leather and hand-polished veneer floods your senses.

In this respect, today's Jaguar Sovereign is no different from its predecessors.

The car features newly developed suspension geometry,

Though in other respects it is worlds apart.

and anti-lock braking with your control.

Equally advanced is an air conditioning system that controls the degree of humidity, and has a solar sensor that actually adjusts the temperature as the weather changes.

Likewise, performance is suitably go-ahead. Sacin smooth, all the way to a jot under 140 mph "- legal and road conditions permitting, of course. Not surprisingly, few cars can follow the scent. JAGUAR

UNET'S ESTIMATE FOR MON-CATALYST CARS. JACUAR CARS LTD., COVENTRY, ENGLAND.

# processing will go partly private

services business to the private sector during the next five years in a move that will be worth about £500m a year to suppliers by 1994.

The move marks a further shift from internally run services in government departments after the recent decision to hire outside contractors to bandle most decorrantal tale. bandle most departmental tele-phone traffic. Privatisation will vary from department to department but is likely to affect almost all of the Govern-ment's non-military comput-

Rapid acceleration in the use of private information technology companies is regarded in Whitehall as another aspect of the Government's drive to hive off as many services as possi-ble from the central bureau-

officials insist that departments are acting individually without any general govern-ment instruction. But they concede that the move towards privatisation reflects the cur-rent trend of government

thinking.

At the same time, pressure for more privatisation has been increased by staff shortages in Whitehall as experienced professionals have left for more lucrative employment else-

Traditionally, government that," be said.

THE GOVERNMENT is departments have tended to act planning to hand over about a as training grounds, for the third of Whitehall's computer services business to the private sector during the next five years in a move that will be eration in Whitehall's use of

computers.

Companies that will benefit from the planned changes will be in a variety of areas such as computer consultancy and systems management – devel-oping systems that can then be handed over to the depart-ments to run, or in managing facilities entirely for the gov-

Those types of businesses accounted last year for about 10 per cent of total government spending on information technology of £1.85bn.

The shift towards the private sector is coming under attack from the public-sector unions But it has been widely well comed in the computer software and systems industry, which has been pressing the Government for some time to hand over more of its work to

Mr Geoff Holmes, president of the Computing Services Association and technical director of SD-Scicon, Britain's largest software services company, told a CSA conference last week that policies to open up the market in public information systems would mean more international competi-

# Whitehall data | Tories plan sales drive on policies | Demand for offices

Philip Stephens on the rumblings of a party with mid-term blues

at this weekend's Con-servative Council meet-ing in Scarborough actually uttered the phrase "No turning back", but the message could hardly have been clearer. Mrs. Margaret Thatcher's reasser-tion of her Government's determination to press ahead with its radical programme followed a string of similar pledges from her senior Cabinet ministers. In private conversations outthe sea front conference hall, they were equally ada-mant that the pause sought by a growing number of Conserva-tive backbenchers was simply

isters prefer to speak of squalls rather than storms and offer regular reminders that the

Government was much more unpopular at this stage in its

But if Mrs Thatcher's com-ment that her 10th anniversary in May should be marked by relish of — not retreat from —

Margaret Thatcher: relish of present challenges

not an option.

To stop now would run the risk of the Government being seen to lose its grip, potentially far more dangerous than concerns that it might be pushing ahead too far and too fast. Ministers profes to depart of cornells of cornells. with the policies, a great deal more effort needs to be put into their presentation. Alongside that, there is con-cern that Labour's rush towards the centre ground might - just might - turn the current bout of mid-term blues

current bout of mid-term blues into a real threat to what is still seen as an inevitable general election victory in 1991.

In her speech, Mrs Thatcher dwelt at length on the planned reform of the National Health Service, feeling it necessary to repeat three times that there were no plans to privatise it.

That reflects evidence from the party's private polls that Labour's repeated assertion that the Government is intent the present challenges was undisputed, Conservative leaders are not ignoring the message of the opinion polls.

The party's senior strategists generally acknowledge that if there is no choice but to stick

on breaking up the NHS is hav-ing an effect.

The possibility that some

The possibility that some 30,000 general practice surgeries around the country might become centres for opposition to the reforms was similarly mirrored in the Prime Minister's categorical assurance that "no one is going to compel the doctor to handle his own budget." Mr Kenneth Clarke, Health Secretary, was similarly emphatic about the commitment to a free NHS.

After the admission earlier After the admission earlier this month that the planned

this month that the planned sale of the water industry had been "mishandled," Mrs Thatcher felt obliged to call this weekend for Conservative activists to give full support to Mr Nicholas Ridley, Environment Secretary, in his efforts to promote its virtues.

It is not just the NHS reforms and water privatisation that party leaders consider need better marketing.

Thus Mr Kenneth Baker, Education Secretary, reminded the Scarborough andience that they should refer to his pro-

they should refer to his pro-posed system of student financing as "top-up loans," not as a substitute for student grants.

Mr John Gummer, local government minister, signalled the expected opposition to the poll tax with a plea for Conservative company to promote vative canvassers to promote its benefits in the run-up to

In the background there were also rumhings about the presentation of last week'e Budget. Few, if any, disputed the decision of Mr Nigel Lawson, Chancellor, to opt for a cautious package, but there was a perception that the reform of National Insurance Contributions to help the low. Contributions to help the low-paid had been "undersold." The second strand of the

Government's strategy came in the repeeted attacks on Labour's policy review. The aim is to undercut the claims that Labour has dumped the policies of the 1970s that left Britain in "economic ruin and cultural decline", and that Mr Neil Kinnock, Labour Party leader, can produce a credible defence noice.

leader, can produce a credible defence policy.

Lebour, Mrs Thatcher insisted, remained trapped in the "potholes of history."

Whatever the results of its review, it would remain committed to abandoning Britain's "surest means of preventing war — the nuclear wearons." war - its nuclear weapons".

That theme will be repeated over and over in the next few months as party leaders continue to monitor the opinion

sanguine now, but they cannot affind to allow public disquiet over their own policies to run in tandem with a re-emergence of Labour as a potential alter-

# 'growing faster in south-east England'

By Paul Cheeseright, Property Correspondent

DEMAND FOR business space DEMAND FOR business space across the financial, professional and manufacturing sectors is growing faster in the south-east of Britain outside Greater London than within the metropolis.

The main factor behind the demand for extra space is business expansion, Jones Lang Wootton, chartered surveyor, reports after a survey in

veyor, reports after a survey in January of 400 companies across the region.

For 30 per cent of JLW's sample, accounting largely for banks and professional companies, the City of London remains the favoured area for

A further 20 per cent is expected to seek space else-where in London; half the sam-

where in London; half the sample will be looking more widely through the south-cest.

JLW found that the banks, in spite of large but isolated cases of decentralisation, continued to prefer to expand in the City. In conclusions were corroborated by research from Morgan Grenfell Laurie, chartered surveyor.

Its gurvey of 50 foreign

Its survey of 50 foreign-banks in London found not only a general expectation that the City would remain. Europe's financial centre but

Understaning the need for Underpinning the need for expansion are plans to engage more staff. The JLW survey found that there was likely to be a growth in staff numbers of 2 per cent over the next year, compared with 2.4 per cent in the year to this January. That would probably mean a rise of 40,000 office jobs among the 400 companies.

The gross demand of companies in this category for space over the next two years is nearly 10m as it. However, expansion in one place leads to vacancy in another, which suggests that net demand would be 3.5m sq ft, equivalent to 5 per cent of current office stock.

The timing of company movements is of especial significance to the property market and JLW predicted a bulge in the second half of 1990, where a discountry timestally a discountry timestally and the second half of the seco in the second half of 1990, when a disproportionately large share of space — amounting to 68 per cent of the 2.7m sq ft expected — would come on to the market in central larger.

portion of offices now being built will become available just

Dorne

推出自己的

# **Soviet Union buys** 'expert' software

BRITAIN IS helping the Soviet Union to develop and apply advanced new software that

advanced new software that gives computer systems the eppearance of intelligent behaviour.

In what is believed to be the first deal of its kind involving "intelligent" computer programs, Expertech, a small British company based in Slough, Berkshire, has sold XI Plus and XI User, its "expert systems," to New Information Technologies, a Soviet organisation gies, a Soviet organisation charged with introducing

charged with introducing advanced technologies into Soviet industry.

The deal, worth £3.2m, was signed after some three years of tentative negotiations. It allows for unlimited distribution of the two programs throughout the Soviet Union and for the development of a Russian-language version. However, under the rules of CoCom, which monitors the export of high technology to Soviet bloc countries, Exper-tech is forbidden to help the Soviet Union to develop specific applications

Expert systems give computers the ebility to provide apparently reasoned answers to queries concerning specific areas of knowledge. They are still new in the West, but their use is growing rapidly, espe-cially in large organisations.

Companies in the US, Japan and Europe that have used expert systems seriously report dramatic improvements in productivity and profits.

Express has developed a sys-tem for credit authorisation which it believes is saying it

\$27m annually.
Nippon-Kokan Steel has a system for detecting faulty havlour in blast furnaces which is claimed to be as reli-able as a human supervisor

with 20 years' training.

The National Health Service developed a system for evaluating health care that carries out in nine minutes analyses which used to take six experts

In spite of their potential; most expert systems have been systems companies - such as Expertech in the UK and Intelseen the financial returns they had anticipated. Market researchers now

believe the experimental period in expert systems is fin-ished. Ovum, a London-based consultancy, believes industry will spend £250m on expert systems this year.

Expertech says the Soviet deal will give it the financial resources to accelerate its development plans and sell a wider range of products. The Soviet Union is planning to use the eystems to spread scarce specialist knowledge cheaply through the economy, especially in the industrial, sci-

entific and medical sectors. Soviet computer specialists can develop expert systems such as Xi Plus, but lack the industrial infrastructure to put

#### For example, American the systems into practice. Retailers still have scope to grow, study suggests

RETAILERS should be able to grow even though markets are becoming saturated with too study by Coopers & Lybrand, the management consultancy, and the Oxford Institute of Retail Manag

By Maggle Urry

The research suggests that although some local markets appear to be over-provided with food and do-it-yourself stores - the two sectors most opportunities for retailers

The study suggests that "the saue is not so much saturation, it is more a question of who will be the winners and the losers in increasingly com-petitive markets." Cost pressures on new large

stores have shown retailers that they need to make the best use of existing space, the research team believes. Even so, retailers can win business by identifying local markets that have too few shops and gain an edge over their competitors through

offering a distinctive product range and service.

Ms Gleme Gibson, of Coo-pers & Lybrand, argues that consumers will react against high streets and shopping mails that look increasingly alike. "Stores look alike, prod-uct ranges are similar and concepts are rolled out nationally with generally very little adap-tation to local or regional requirements," she says. Shoppers will get tired of

new designs faster, so that retailers will have to adapt more quickly to satisfy the constant and continuing demand for choice and nov-

elty," she says. "In the 1980s, retailers used fascia and environment design to differentiate themselves. In the 1990s we will see differentiation more through product design and service

Study available from Oxford Institute of Retail Management, Templeton College, Kennington, Oxford OXI 5NY. £45.

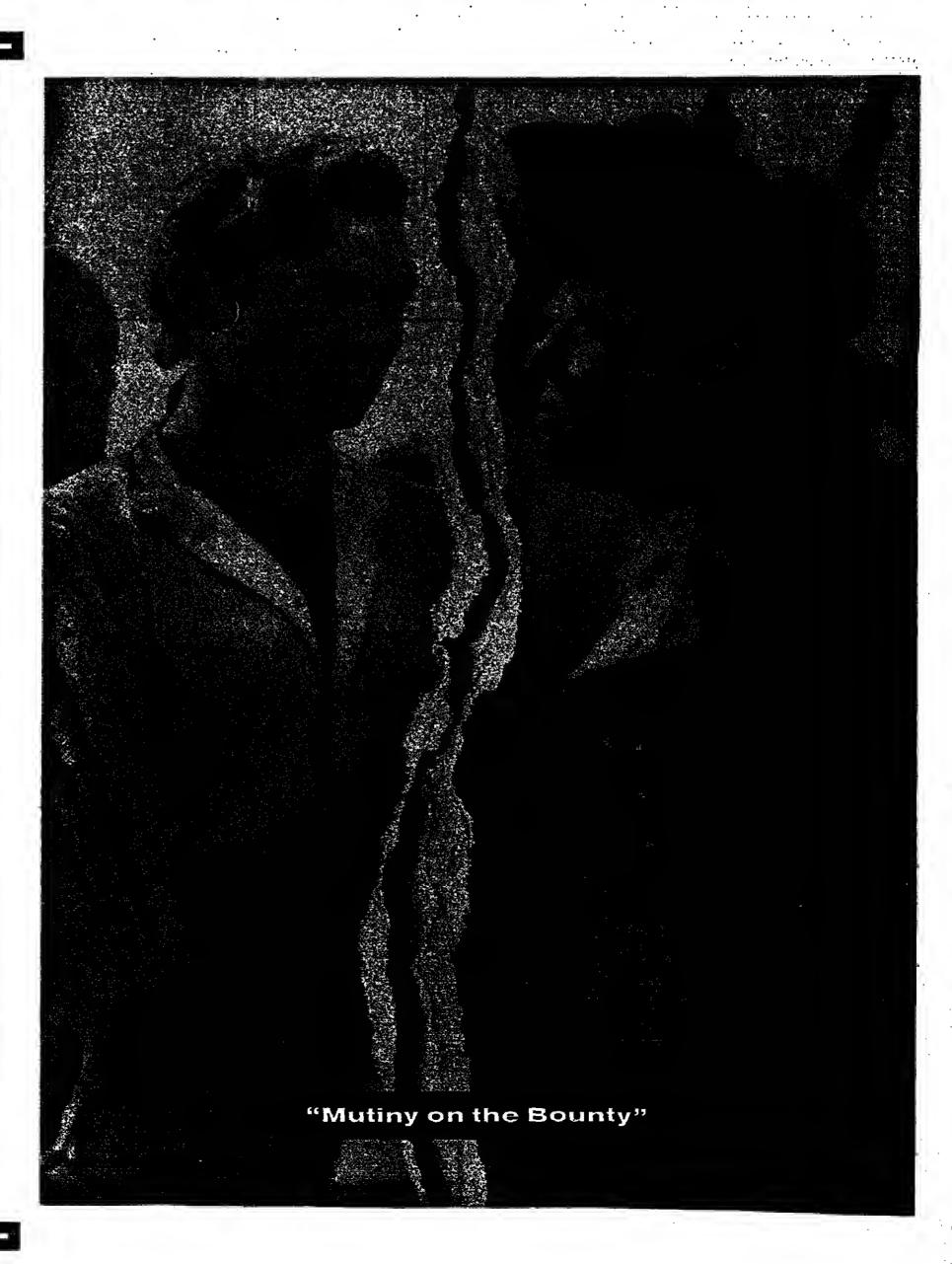
#### **British Coal sells Cardiff HQ**

BRITISH COAL has sold its former regional headquarters building in Cardiff to the Oldway Group for £3.25m.

The Merthyr Tydfil-based development company is to seek planning permission for a £16m redevelopment that will replace the building with offices, shops and housing. British Coal moved out of the building six months ago

when the South Wales coalfield was downgraded from a region after the closure of most of its pits in the wake of the 1984-85

miners' strike. Mr Peter Morgan, chairman of Oldway, said the site was a prime location for development in Cardiff. Within two years he expected a link to be opened with the M4 motorway a mile



#### **UK NEWS**

# EC disclosure plan 'would damage small companies'

By Richard Waters

The state of the s

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Editor Inc

2 22 2

SMALL companies in the UK could suffer if the European Commission ended many reporting requirements for

reporting requirements for them, according to the Trade and industry Department.

The department says in a consultative paper circulated among interested groups that the Commission proposes to do away with the requirement for small companies to be audited.

This would affect nine out of This would affect nine out of 10 UK companies, as well as many of the disclosure rules. The commission says these place an unnecessary burden

A STATE OF THE STA on small companies. Abolition would overturn the UK decision last year to retain andit, and could save small andr., and count save small companies millions of pounds a year in audit fees.

But while the department agrees with the commission's aim of cutting burdens on small businesses, it says the proposals leave too little pro-

tection for those dealing with It is concerned that other EC member states would take advantage of a plan to allow them to exempt closely held companies (small companies managed by their sharehold-

ers), from publishing accounts It fears some states would publishing information and that this "could cause prob-lems for UK exporters and creditors who needed such information to assess the financial viability of the company with which they were planning to trade."

The department says the proposals would not succeed in reducing the burdens on small companies, as they would still is would not succeed in have to produce much data for tax authorities. The only result would be less data for sharelders, creditors and others Other proposala would exempt small companies from filing accounts with the Companies Registry, instead requiring them to make accounts

available only to people visiting their premis The amount of information they would have to publish would also be cut and directors' reports would be unneces-

The proposals are intended to cut the disclosure required by the fourth and seventh BC. Directives which have harmonised companies' accounts

The proposal to relieve small compenies of audit is likely to reopen debate in the UK: after years of disjointed discussion, the Government said last summer it would not end the

**Savings** panies Act. The EC proposals would take this decision out of By John Edwards THE OUTFLOW of funds from member states' hands.

The plans have provoked strong reactions in the UK: Peat Marwick McLintock, the largest UK accountancy, has told the Government it should regist the changes

The European Commission, in a further proposed amendment to the directives, says companies of all sizes should be allowed to draw up accounts in Ecus, rathar than their • The DTI today launches a nationwide programme of briefings to strengthen small and medium-sized companies' management skills. Twen-ty-five regional briefings are planned for the next few

months, aiming to reach about 5,000 senior managers. The first will be hosted by JCB (J. C. Bamford Excavators) of Staffordshire. Boots and British Aerospace are planning others. About 200 local managers will attend. The aim is to stimulate disthe aim is to symmetre dis-cussion of common problems. The DTI hopes briefings will spread best-management prac-tice more widely. The pro-gramme is spousored by the Government's Enterprise Ini-

tiative and by Lloyds Bank.

have matured, so there is a considerable incentive to switch into other investments. Some of the money is switched to other National Savings products, such as the Capital Bonds introduced in January. They have now taken m £84.7m. Their main appeal is to non-taxpayers, because although they pay a guaranteed gross

> next five years, taxpayers face paying tax in advance before they can cash in their investment five years from now. Alternatively, taxpayers can switch to the current (34th) issne of savings certificates, which offer an interest rate of 7.5 per cent tax-free but also mean locking money away for

st of 12 per cent over the

£231m from

National Savings continued last month. Withdrawals by savers exceeded new deposits by more than £231m, according to figures issued by the state-

Once again, the biggest with-drawals were from maturing, fixed-interest savings certifi-

cates. National Savings is pay-ing only 5.61 per cent interest on savings certificates that

owned organisation.

**National** 

# Outflow of | Car and truck sales fuel 17% output rise

By Kevin Done, Motor Industry Correspondent

UK CAR production in the first two months of the year was 16.8 per cent higher than a year ago, at 225,734 compared with 193,236, according to provisional figures from the Department of Trade and

Output a year ago was restricted because of the loss of production from Ford's UK plants, which were closed by a two-week strike.

Commercial vehicle produc-tion in the first two months of the year was 41.4 per cent higher, at 57.367 against 40.565 a year ago, when output suf-fered with strikes at both Ford and Land Rover. According to the DTI, car

output in the six months to the end of February was 14 per cent higher on a seasonally adjusted basis than in the cor-responding period a year ear-lier, while commercial vehicle output was 39 per cent higher. UK vehicle output is being maintained by strong domestic car and commercial vehicla

sales, both of which are run-ning at record levels. New car sales in the first two months of the year were 9.16 per cent higher that a year ago, while commercial vehicle sales

jumped by 12.13 per cent.

UK new car sales from January I 1989 passed 500,000 last
Friday – a 9 per cent increase on the corresponding period a year ago, according to figures from the Society of Motor Man-

UK VEHICLE PRODUCTION Total . 471,504 Rover (Incl.Range Rover) ... 474,687 375,542 Rolls Royce COMMERCIAL VEHICLES Rover (incl.Land Rover) .... 101,237 Renault Truck Industries .

Mr Simon Foster, SMMT director, said the car market was unexpectedly buoyant after four record years.

"After years of lagging behind other European countries, our car ownership is

catching up."
Rover Group, the subsidiary of British Aerospace, strengthened its position as the UK's leading car producer last year with car output (including Range Rover) rising slightly to

474,687 from 471,504 in 1987. according to SMMT figures.
Ford's UK car production feli
by 29 per cent, partly under
the impact of the February
strike, to 375,542 from 386,696 a

Ford's monthly production figures were lower than the corresponding month in 1987 in every month between February

Vauxhall car output was also slightly lower, reflecting the

disruption caused by the tion Cavalier at its Luton

ontput almost doubled to 82,326 at Peuseot's Ryton, Coventry, assembly plant, which began double-shift working in the spring, with the first full year's production of the Peuseot 405. assembly plant.

Output is also expanding steadily at Nissan's new car assembly plant at Sunderland. Output totalled 56,541 last

It is due to rise to 75,000 this year and is scheduled to reach an annual rate of 200,000 during 1992.

Overall UK car production increased lost year by 73 per

increased last year by 7.3 per cent to 1.23m, the highest level since 1977, although it was still well below the peak of 1.92m

reached in 1972.
At the same time UK com mercial vehicle production last year was 29.2 per cent higher than a year earlier at 318,013 compared with 246,727 in 1987, the highest output achieved

 The Government epproved a substantial publicity campaign at the weekend to speed motorists' switch to unleaded

It was announced by Mrs Virginia Bottomley, the junior Environment Minister, at Brands Hatch circuit in Kent, winners of a race for saloon cars running on unleaded fuel.

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AKE IT YOUR BUSINESS TO CHANGE

# **Book profits static as** paperback prices rise

By Raymond Snoddy

PUBLISHERS are using cent. The reduction in average dramatic price rises in mass print runs has inevitably influenced unit costs. increasing cost pressures in the industry, according to a study by Peat Marwick McLintock, the consultancy firm. It says book prices between 1981 and 1987 rose by 71 per cent more than the retail index

as a whole. Even so, profit margins in book publishing and retailing have been static around 8 per age 20 per cent for the econ-omy as a whole,

Cost pressures are being relieved "by increases in the selling prices of paperbacks which have been absorbed by the marketplace much more easily then price increases for hardbacks and other catego-

sioned by Somerset County Council, the Library Association and the BNB Research

tion costs have risen as pub-lishers increase the number of titles they issue in the search for best-sellers, and, mean-while, libraries and schools are huying fewer books.

Between 1981 and 1987 the number of books sold report on Book Prices. British increased by only 6.5 per cent Library Sales Unit, Boston Spo. while the number of new titles Wetherby, West Yorkshire L\$23 published increased by 38.9 per 7BQ. (Price yet to be fixed.)

print runs has inevitably influ-

Mr Richard Paterson, Peat Marwick's partner in charge of publishing, said: "The evolu-tion of book prices and its underlying causes will continue to foster the consolida-tion of the publishing industry with fewer but more powerful players which has been so evident over the past few years."

The same factors, he

believes, are also contributing to growing strain on the Net Book Agreement, by which retailers mostly sell at prices recommended by publishers.
Critics of the agreement, such as Mr Terry Maher, chairman of Pentos, argue that it keeps book prices artificially

high, thereby depressing sales. Supporters, including most helps to support the publica-tion of a wider range of books and the survival of a larger and the southops.

the Office of Fair Trading about the agreement and the OFT is considering whether there are grounds for a reference to the Restrictive Prac-

#### Cyclical indicators 'need to have more emphasis'

By Ralph Atkins, Economics Staff

GOVERNMENT statisticians hope the seldom noticed official cyclical indicators for the UK economy will be given a higher profile, if the Treasury only that they are "broadly

approves. consistent" with a slowdown Statisticians at the Central and has emphasised that they Statistical Office are to meet Sir Terence Burns, the Trea-sury's chief economic adviser, early next month to discuss proposals to revamp presentation of the monthly figures.

They want to convince him that the indicators, which are actorious for moving errati-cally, are beginning to show a consistent story. If Sir Terence agrees, the official interpreta-tion accompanying the form tion accompanying the figures could be clearer and not as

heavily qualified as at present. The CSO publishes four indicators designed to highlight turning points in economic activity. The potentially most useful are the longer leading index, which should show turning points a year shead, and the shorter leading index, looking six months ahead.

- suggesting that economic growth will slow down sub-

consistent" with a slowdown are particularly subject to revision. It points out that even a cyclical peak in activity shown by the indicators early in 1985 has not yet been confirmed

If the CSO is allowed to be more definite, it would help to

sources that are believed to either lead or lag economic growth. They include statistics on share prices, business opti-mism, housing, credit, profits, output and the labour market. In the past two years, the indicators might have been distorted by the stock market crash of October 1987. CSO statisticians also believe an looking six months ahead.
Since last year, both indicators have been failing steadily

steadily buoyant economy might have distorted normal cyclical patterns.

# CPS head protests to Bar

By Reymond Hughes, Law Courts Correspondent

MR ALLAN GREEN, QC, the legal profession. Director of Public Prosecutions and head of the Crown Prosecution Service, has protested about comments about CPS lawyers in an advertisement issued by the Bar Council.

In e letter to Mr Desmond Fennell, QC, the Bar chairman, Mr Green records his dismay at "the unfair and inaccurate comments made . . . about the present and future role of CPS lawyers."

in The Times on Friday was part of the Bar Council's camcellor, for the reform of the

The advertisement included the statement that the Government "proposes to give more business to state prosecutors who will only prosecute - even though this means criminals will stand a better chance

of getting off . . . "
Mr Green said that the CPS had been created to provide a national prosecution service, independent of the police.

"That is precisely what it The two-page advertisement does. There is no basis for asserting that the use of 'state prosecutors' either does mean paign against the proposals by or will mean that 'criminals Lord Mackay, the Lord Chanstand a better chance of get-

#### **UK NEWS**

# Thatcher seeks to reassure on health policy

By Philip Stephens and Michael Cassell

MRS MARGARET Thatcher,

the Prime Minister, has acknowledged rising concern

within the Government thet opposition to its plans to reform the National Health Service has been a key factor

in the recent sharp narrowing of its lead over the opposition

Labour party in opinion polls.

Concerted attacks on the

proposed changes prompted

The annual General Meeting of Shareholders of the Amaterdam-Rotterdam Bank N.V. will be held on Wednesday April 19, 1989 at 2:30 pm at the main branch of the bank in Rotterdam, Coolsingel 119 (entrance Van Oldenbarneveltplaats 22).

Announcement of the General

**Meeting of Shareholders** 

Among other things the agenda includes the appointment of members of the Advisory Board. Curricula vitae of the suggested candidates will be available for inspection during the meeting. The agenda is open for inspection at the banks listed below and is available free of charge. The 1988 annual report is also available there, including the report of the Shareholders Commission and the report of the Central Workers Council. Curricula vitae of the members of the Supervisory Board who were (re) appointed after the 1988 General Meeting of Shareholders will be available for inspection during this year's meeting.

In order to exercise the rights attached to ordinary shares to bearer, these shares must be deposited by April 13, 1989 at the latest at one of the banks listed below:

In The Netherlands: All offices of the Amsterdam-Rotterdam Bank N.V.

At the counters of the branches and regional offices of the Generale Bank N.V.

In the United Kingdom: Amsterdam-Rotterdam Bank N.V. in London.

in West-Germany: Deutsche Bank AG, Commerzbank AG, Dresdner Bank AG and Westdeutsche Lan-desbank Girozentrale in Frankfurt (Main), Düsseldorf and Hamburg if established there, and Amro Handelsbank AG in Cologne.

In France:
The headquarters of Société Générale in Paris.

In Switzerland: Schweizerische Kreditanstalt, Schweizerische Bankgesellschaft and Amro Bank und Finanz in Zürich, Schweizerischer Bankverein in Basie and MM. Pictet et Cle in

The deposit receipt serves as ticket of admission to the meeting.

In order to exercise the rights of registered ordinary shares, shareholders must inform the Board of Managing Directors of their intention in writing by April 13, 1989 at the latest.

Should a shareholder wish to be represented at the meeting by proxy, written au-thorisation must be received at the latest by the date and the locations listed above.

The Supervisory Board

Amsterdam, March 20, 1989

Amsterdam-Rotterdam Bank N.V.

Mrs Thatcher to offer renewed assurances over weekend that the Government was deter-mined to preserve the basic principle of a free NHS funded mainly from taxation Her comments, to the Con-servative Council meeting at the northern resort of Scarbor-ough, were followed yesterday by a poil showing the Govern-ment's lead over Labour had narrowed to 1 point, the small-

est margin since the 1987 gen-The Mori survey for the Sun-

day Times newspaper put the Conservatives at 41 per cent and Labour at 40 per cent. This appears to confirm that the NHS plans have emerged alongside high interest rates, inflation and the privatisation of the water industry as key concerns among the electorate. The results will provide encouragement for Mr Neil

Kinnock, the Labour leader, as he prepares to renew his attack on the Government's programme and to improve his party's own credibility as the party of alternative govern-In the first of a series of speeches intended to spell out

Labour's economic strategy, Mr Kinnock will tonight embrace the mechanisms of the market but advocate positive intervention to make it work more fairly and effi-

Mrs Thatcher's Scarborough

confident pledge that the Gov-ernment would not be deterred ernment would not be deterred by its downturn in popularity from pressing ahead with its programme of radical reform. She went out of her way to praise Mr Nigel Lawson, the Chancellor of the Exchequer who presented his budget last week, and to underpin his com-

mitment to keep interest rates high for as long as needed to control inflation. Her decision to defend at length, however, both the planned overhaul of the NHS and the plans to privatise the

has not been effective in pro-moting its programme. Mr Kenneth Clarke, the Health Secretary, and his two junior ministers will embark next month on a tour of the country aimed at convincing

doctors, nurses and voters that

water industry points to her concern that the Government

there are no plans to "privatise" the NHS.

Senior ministers said that private opinion polls had con-firmed public anxiety over the NHS, while there was also con-cern that the planned reforms had become entangled with Mr Clarke's separate row with general practitioners over the introduction of a new contract. Labour's renewed offensive

meanwhile comes with its morale higher than at any time since 1987.

Tonight, Mr Gordon Brown, Labour's treasury spokesman, will round off his party's attack on the budget in the House of Commons, enconraged by polling evidence suggesting that voters are holding

Mr Lawson responsible for the present economic problems.
Yesterday, Mr Roy Hattersley, Labour's deputy leader, described the budget as a "confidence trick" which was

planned to prepare the way for pre-election tax cuts intended to obscure the Chancellor's

Labour attacks will seek, among other things, to convert voters' immediate worries about the state of the economy into concern about Britain's longer-term ability to compete

in world markets. Labour accepts, however that disenchantment with the Tories on a range of issues will not automatically translate into higher support for Labour, and Mrs Thatcher made clear at the weekend that she plans a strong counter-attack on the opposition's record.

So with the opposition par-ty's two-year policy review entering its final stages, the task of winning trust for its elternative strategy will form a large part of Labour's cam-patgn.

# Planned cable TV curbs set to go

By Raymond Snoddy

THE GOVERNMENT is to cable available to 2m homes in abandon controversial propos-als which would effectively have prevented the owners of cable television networks from selling programme services directly to consumers.

The separation of the owner-ship and retailing of cable suggested in the Government's White Paper (draft law) on broadcasting was designed to boost competition and prevent the creation of local monopo-

Instead it threatened to turn off a potential flow of hundreds of millions of pounds from successful North American cable companies which were showing increasing interest in investing in the British cable

In November, for instance, United Cable of Denver, was awarded three large British cable franchises designed to pass 700,000 homes at a cost of United alone wants to make

the UK. Yet it was among the US companies warning pri-vately it would pull out unless the Government dropped its plans for separation.
US cable companies believe

that their experience of selling cable services to consumers is one of the key features they can offer. They are reluctant to cede this experience to the new breed of local retailers envisaged by the Government. The Government now plans to adopt a different route to

create competition within local television services. Cable network owners will be required to open a proportion of their capacity to local interests. Those wishing to run

a local cable channel or spe-

cific programme service would be able to lease the necessary cable capacity. The Government has still not decided if North American cable operators will be allowed to own UK networks.

STATE OF THE PARTY OF THE PARTY

#### Meeting set in university pay dispute

By David Thomas, **Education Correspondent** 

BOTH sides in the university pay dispute will meet this week to consider their options now that the Association of University Teachers has refused to accept a pay offer of 6 per cent for 1989-90. The offer was described by the employers as final.

The AUT's governing council decided on Saturday to continue a boycott of examinations and to balkot its 30,000

members early in April.
Ms Diana Warwick, AUT general secretary, will formu-late the ballot question this week, but she said last night that the union's members would be recommended to reject the offer unless it was

AUT leaders will seek a meeting with the Committee of Vice Chancellors and Principals to press for an improved offer, before the ballot papers are sent out.

Much of the anger among delegates to the AUT council centred on their complaint that they had not received a pay increase in 1988-89. The vice chancellors deny this claim, but it suggests that the AUT may be particularly keen for the employers to make some further pay gesture for the cur-

rent year.
Meanwhile, the vice chancellors are to meet on Wednesday to consider how to advise universities to lessen the impact of the exam boycott.

# Brussels likely to approve Shorts loan

By William Dawkins in Brussels

THE EUROPEAN Commission is likely to approve the British Government's plans to make a 2390m (\$663m) bridging loan to Short Brothers this week, pav-ing the way for the sale of the struggling state-owned aero-

epace group.

A full weekly meeting of the
17 Commissioners on Wednesday is almost certain to sanction the plan to provide the already heavily indebted Belfast company with a three-month loan at commercial rates of interest, say EC offi-cials. The decision will come only weeks after Brussels cleared a DM3.9bn (\$2.1bn) aid package to help Daimler-Benz, the West German car producer, huy a stake in the Messarschmitt-Bölkow-Blohm (MBB)

aerospace group.
The effect of the Commission decision will be to confirm an end-of-June deadline for the sale to be agreed, because the loan simply allows the company to continue to operate over that period without being forced into liquidation. The main suitor is Bombardier, the Canadian aerospace and transport group, although a consor-tium led by GEC of Britain and Fokker of the Netherlands is also interested in acquiring

Shorts. Britain has yet to open talks with the Commission on any permanent debt write-off to be offered as part of a final takeover deal, although EC officials say that is only a matter of

time. They expect such an application to come when the Government is neater to finalising details of the sale.

If the controversy over last year's proposed write-off to assist the sale of Rover, the vehicle maker, to British Aerospace is a guide, a deht write-off application will be harder to clear threach the harder to clear through the Commission. Brussels cut 40 per cent off the £800m debt write-off the Government had planned for Rover.

The Shorts bridging loan will have taken less than a month to win Brussels' approval – unusually fast but also a reflection of the extensive informal talks which took place before the UK launched the application. The loan is considered atate aid despite being at normal market rates because Shorts is so indebted that no commercial banker would consider lending to it. The loan will be convertible

into equity.

Almost all industrial subsidies granted by EC Governments must be vetted by the Commission to ensure they do not accord unfair advantages to the beneficiaries. EC competition rules allow such subsidies when important common European interests are at stake, among other criteria.

Commission officials said their decision to allow the aid package to Shorts was guided by the strategic importance of the aircraft industry.

# HSE - WORKING TO KEEP WORK SAFE

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The new Coatrol of Substances Hazerdans to Health Regulations

the control of buzardous substances and t protection of those exposed to them. For the most part, these regulations will

coma inte force on October 1st 1989.

Some businesses may need to de little to comply with COSHR, others may need to instigute major changes. It all depends up the risks levelved and the steps already taken to protect people at risk.

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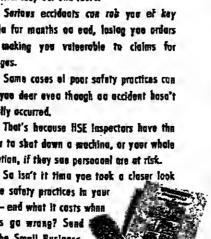
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people benefitted from grants of £8.5 million. Inflation and old age increases that figure annually. Where does the money go? To belping families maintain e semblance of the life they had before, by providing housing and before, by providing housing and funds to overcome financial

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Further to our notice of August 16th, 1989, EDR holders are informed that Makita Electric Works Ltd has paid a dividend to holders of record August 20th, 1988. The ceah dividend payable is Yen 9 per Common Stock of Yen 50.00 per ahare. Pursuant to the Terms and Conditions the Depositary has converted the net amount, after deduction of Japenese withholding taxes, into United States Dollars.

EDR holders may now present Coupon No. 18 for payment to the undermentioned agents.

Payment of the dividend with e 15% withholding tax is subject to receipt by the Depositary of the Agent of a valid affidevit of residence in a country having a tax treaty or agreement with Japen giving the benefit of the raduced withholding rate. Countries currently having such arrangements are as follows:

NOTICE TO HOLDERS OF EUROPEAN





100

Computers and Communications

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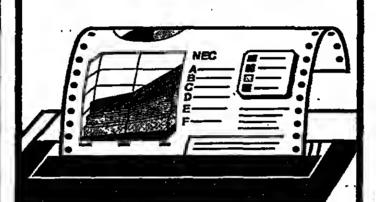


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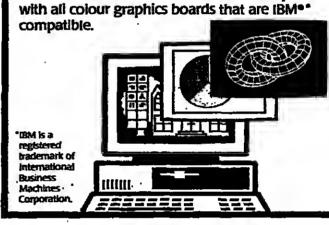


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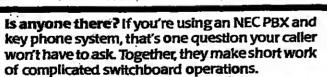


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#### MANAGEMENT

of Valor, then a turer of heaters and cook ers, in 1965, after two years as managing director. Since then, Montague - a man to whom the adjective "humble" has rarely been applied - has not shared executive power at the top of the company.

That is about to change.

With the company now transformed into Yale and Valor, an international locks and domes tic appliances group valued by the stock market at £420m, Jeoff Samson will take over as group managing director early next month after six years as

head of the General Electric Company's domestic sppli-ances division.

The torch is not heing passed. Montague remains executive chairman, and indeed, at 57, is three years younger than Samson. Yet Samson's arrival is an important milestone for Yale and Valor, signalling the changes which have accompanied its dramatic growth since 1987.
"I will be the builder; Mich-

ael is the architect. Both need each other," Samson says.

If it is true that every successful company eventually overshadows its creator, in this instance, the phenomenon has

taken a long time.

Montague's career has also illustrated the two-edged sword of directors' involvement in outside activities. Up to a point, on the premise that any publicity is good publicity, Valor benefited from Montague's high profile as chairman of, successively, the English Tourist Board and the National Consumer Council.

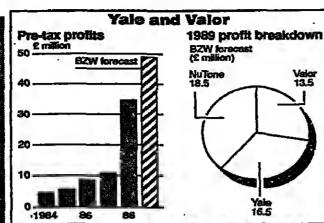
But to do those jobs effectively, he had to get headlines. It was not so much that Montague made enemies, more that his making controversial statements, in the line of duty, seemed to have made him into a controversial person.

For years, it did not matter. If the City saw Valor as a one-man band, well, that was about the size of it.

Everything changed in 1987, when Valor did a transatlantic deal that quadrupled its size at a stroke, huying Yale Security, the locks group, and NuTone, a leading US manufacturer of huilt in domestic appliances, for \$460m (£285m) from Canadian owned First City Industries. Almost all of the new business was in the US, a country of which Montague had no practical experience. But he knew a man who did.

Boh Olney had joined the







Yale and Valor: a double act

# kindling a secure flame

Clay Harris explains how a modest UK heating appliance manufacturer which made a significant leap into the US implanted its strategy into the enlarged group

director in July 1986, after patient courting by Montague. A 40-year veteran of the US diversified industrial and consumer products group, Min-nesota Mining and Materials, Olney had been 3M's UK managing director since 1979. in early 1986, Olney had decided to retire rather than be transferred back to the US. He

snhmitted his name to Pro-Ned, the body which promotes the appointment of non-executive directors at UK companies. Shortly afterwards, Montague went to Pro Ned in search of a US director with experi-ence of the reporting proce-dures and external communications of a large company. Olney fitted the bill exactly.

Neither he nor I had the stightest idea we would be my-ing Yale and NuTone," Monta-gue 'maintains. What thay agreed was that Valor should get into the US.

America is a natural market for a company of our ambi-tions," says Montague, who cites not only its size but its historical and cultural unity. He dismisses the notion that Europe will ever challenge the US as a single market except in statistical terms.

But how did Valor end up buying the much larger Yale and NuTone? Montague had identified security as a growth sector. The idea of manufacturing a security grill, the "Valor Vandal Beater," was dropped after discouraging market research, but Montague was struck by how often "Yale" had popped up as the leading name in security.

Montague approached Sam Belzberg, one of First City's Canadian controlling family, to see if Yale was for sale. As Montague recalls, Belz-

berg replied: "Why does every-one want to bny Yale and nobody want to buy NuTone?" Montague, who had not heard of NuTone, had no answer. But once again, almost by chance, Olney played a key role, "The first thing Bob knew about it was when he came into my office, where there was a NnTone catalogue on the

desk." Montague says. "He saw me looking at it and asked me, 'What are you doing with that? That's one of the most famous companies in America." This encouraged Montague to pur-sue what, for Belzberg, was a both-or-nothing proposition. In March 1987, Montague sent Olney to the US to see if the acquisition was practical.

After a favourable report, Ohey recounts, "he said: 'my big problem is how we're going to manage it," and I said: 'I'll manage it for you.'" It had never been planned for Ohey to take an executive role, but that "became a practical solu-tion to the problem." He still spends more than half the year in the UK, however.
Olney's first duty was to help Montague convince the City that Valor could digest city that valor could digest and manage its acquisition. The doubla act worked. A £265m share issue was priced at the highest Valor had ever traded; shareholders applied for 45 per cent of the issue, a

respectable result in the waning days of the bull market. Now 62, Olney is chairman of Yale and NuTone, the Cincinnati-based holding company for US operations. The subsidiary has its own board, with US non-executive directors including Joseph Kuhn, a former colleague of Olney's at 3M.
By mid-1987, when Valor
came in, Yale and NuTone managers had seen three owners in less than three years. First City had bought Scovill, Yale and NuTone's parent, in 1985 and was gradually breaking it up at a huge profit. Divisional managements reported to accountants who seemed to have no interest in the under-lying husinesses. They were frustrated by being starved of

funds, according to Olney. It takes time, however, to change expectations. Acquisitions, although modest compared with the initial deal, help to get the message across that the UK parent is looking for long-term growth, not only for short-term cash flow. Such deals have extended Yale's range of automatic door closers and added a manufacturer of electronic hinges. The purchase of Miami-Carey, a manufacturer of bath-

room cabinets and cooker hoods, took NnTone, which had traditionally sold direct to builders for installation in new homes, into the retrofit and DIY markets. Manufacturing has been rationalised and two of Miami-Carey's three facto-

The US non-executives play more than a superficial role. Kuhn, for example, went around factories and advised on how to achieve lower costs. In overall management terms, however, the US board is less important than the two executive committees, a post-acquisition innovation, which report directly to the main board. One oversees gas appliances,

water heaters and catering equipment – the old Valor companies. So far, these are mostly in the UK. The other supervises locks and security systems and domestic appliances, the Yale and NnTone companies. These are heavily hiased towards the US, but there is more diversity because of Yale's worldwide spread.

Rach committee meets once a month, four days before the main board meeting. After the executive meetings, minutes are faxed to non-executive directors. Until now, Montague has chaired both committees. When Samson joins, he will take over this role.

The formality of the struc-ture contrasts starkly with the way Valor was run in the pre-vious two decades, largely by Montague himself. The most important supporting role was played by Norman Davis, an accountant who acted as finance director for most of his 18 years on the board, even though officially he was non-executive. Davis also handled the detailed negotiation of many of its deals, including the purchase of Yale and NuTone.
The close relationship fell apart in the summer of 1987, however, after the US deal was

aled, and Davis resigned in Montague's reputation as a one-man band may have been exaggerated in any case. He has no doubt about the special role of chairman: There's only one man who stands up at the AGM." But divisional management should be left to get on

with business. The line between delegation and abdication is always a dif-ficult one to define," he says, but management has to fe that it's got close to total authority and sovereignty, and that it's not dependent on

Moreover, despite his formideble reputation, Montague reserves his greatest scorn for the "sycophant" and "lackey". Samson is unlikely to offend on either score, and he brings a record of successfully aggres-sive marketing from GEC. Under his tenure at GEC.

Hotpoint - boosted by the acquisition of Creda from TI Group in 1987 - increased its UK market shares to 40 per cent in washing machines, 60 per cent in tumble dryers and per cent in dishwashers. Samson is an avid advocate

of making brands work hard and protecting them against own-brand encroachment. Introducing Yale into the group's name was a "master stroke," he says, but the task now is to identify the company's other brands - such as NuTone, Dreamland electric blankets, Breville toaster ovens and Heatrae Sadla water heat-

s - with the group. Montague, however, thinks it would be "missing a trick" to look only at Samson's market-ing experience. Before GEC, Samson was director of tele communications at STC. "I think what he brought to Hot-point was his contemporary technical knowledge," saye Montague, who is looking for more of the same at Yale and

1967

# Now polytechnics mean business

David Thomas examines Leicester's pioneering approach

he powers that be at Leicester Polytechnic went in for a bridge-huilding exercise this month which, only a few years ago, would have been unthinkable in this once dowdy sector of blober education.

higher education.
They trained down to London, where they hired an imposing room at the institute of Directors headquarters and invited all and sundry to listen to their plans for the future. These plans, as outlined by Kenneth Barker, Leicester's director, were consciously conched in the language of

business. Barker set out the four key objectives of his senior management team.
First, to meet clear financial targets by turning the poly-technic's schools into profit centres. Second, to maintain

centres. Second. to maintain quality control of its products, teaching and research, amid the price war he foresaw in the polytechnics. Third, to develop sound research and other links with strategic local industries with strategic local industries. industries such as textiles. Last, to play its part in devel-oping Leicester's inner city. Polytechnic directors like

Barker ere projecting themselves increasingly as chief. businesses (Leicester's turn-over last year was £26m), as many factors have prodded them to model the management of polytechnics on that of business.

That this is no flash in the pan looks clear from a discussion paper from the Polytechnics and Colleges Funding Council (PCFC), a new body which is taking charge of dis-tributing more than £1bn a year to 80 polytechnics and

This document is remarkable for being the first attempt at a funding mechanism designed to ape the market in higher education and thereby to maintain the impetus behind the sort of managerial changes being introduced in Leicester. "The most impor-tant single influence on the allocation of funding ought...to be well-informed student demand," it says. The centreplece of the new

mechanism would be a system of annual competitive bids by colleges for money to put on courses. The document sets out four different options for this system; under which col-leges might bid for:

• the numbers of students they wished to sured, with the price per student being set by the PCFC only after the bids

were in.

O both student numbers and prices, a procedure which the PCFC likens to normal commercial tendering.

O funding on the basis of an institutional plan, a model that the commercial tendering. institutional plan, a model eimilar to "a commercial enterprise approaching a merchant bank for financial support," according to the PCFC. O incremental funding after colleges had been guaranteed a proportion of their funds, a system which would focus their attention on attracting the marginal student.

1.5 400

· 154

4.977

74.0%

. .

the marginal student. Each of these options has its strengths and weaknesses, but strengths and weaknesses, but the PCFC insists that all would serve to decentralise decisions. The whole thrust is for us to put more decisions into the hands of institutions." explains Roger McClure, the council's director of finance. If the council remains true to its word, it will be one of

the few occasions of a central-ised planning body in the pub-lic sector ever voluntarily surrendering control over mangament decisions.

The document leaves the council with plenty of scope to override the marke, signals flowing from student prefer-ences. It mantions the quality of courses and national priorities, such as the Government's support for engineering provision, as two factors which the council might have to invoke when reaching decisions.

Moreover, the results of the

bids are to be translated into-contracts between each college and the PCFC, with penalty clauses for a college failing to keep to the bargain.
The new mechanism, in the right hands, could give a

right hands, could give a major boost to the entrepreneurial culture now taking a grip of polytechnics like telesster. In the wrong hands, it could turn into a a means of dressing up old-fashioned public searces planning in the lie sector planning in the trendy language of co

Funding Choices, PCFC, Metropolis House, 22 Percy Street, London WIP 9FF.

# RESULTS JANUARY 1 – DECEMBER 31, 1988

M Orders received MSEK 13,553 +13% I Invoiced sales MSEK 12.401 +10% ■ Order backlog MSEK 4,822 +31% El Income after net incial Items MSEK 1,053 +31% Return on capital 19.0% (15.9) Return on equity

18.1% (15.8) **Examines per share** SEK 47.70 (40.30) Proposed dividend SEK 15.50 (13.00) ■ Split 4:1

■ Forecast: Continued improvement in

SALES			
(MSEK)	1988	1987	Change, %
Orders received	13,553 .	11,998	+ 13
Invoiced soles	12,401	11,321	. +10
Order backleg	4,822	3,670	+ 31

Of the order backlog, MSEK 4,320 (90 percent consists of orders for delivery in 1989. The order backlog in the companies acquired at year-end 1988 amounts to MSEK 427 and is not included

(MSEK)	1968	1987 Ch	ange, %
Operating income after deprecation Operating margin, % Net financial items	915 7.4 138	743 6.6 58	
Income after net financial nems Profit margin, %	1,053 S.5	801 7.1	+ 31

Accounting methods have been changed slightly in the 1988 financial statements, w negatively affected reported income by MSEK 66. These changes include charging monetary correction of equity in the Brazilian subsidiar-ies against operating income in contrast to preies against operating income, in countries a caprious years. Net financial items included a caprious years. ing income, in contrast to preital gain of MSEK 4 (92) on the sale of invest

The increases in operating margin and profit margin, combined with an acceleration in the rate of capital turnover, have improved the Group's profitability. Thus, return on capital employed before tax was 19.0 percent (15.9) and return on equity capital after full tax reached 15.1 percent (15.8). Earnings per share, taking into account outstanding convertible deben-tures and options, increased from SEK 40.30 to SEK 47.70. Earnings per share after extraordinary items were SEK 48.10 (68.80).

nary stems were SEK 48.10 (68.80).

As in previous years, goodwill was eliminated through a lump sum write-down. Thus, planned depreciation of goodwill was not charged against income after financial items. The 1988 lump sum write-down of MSEK 439 was made directly against nonrestricted equity in accordance with practice developed during the nast true treats. Last ware humn sum writethe past two years. Last year's hump sum write

down of MSEK 566 was reported on a separate line in the income statement below income after

Due to increased volumes Agri has improved its earnings, which combined with the effects of capital zationalization has increased return on

spital employed. Earnings and profitability of the Food open ing area have improved as a result of cost and capital rationalization measures. Also, the company acquisitions made in 1986 and 1987 pro-

ating area has led to increased sales volumes, primarily for the Thermal and Separation Busi-ness Areas. In addition, the restructuring program now completed by Separation has boosted earnings and profitability to satisfactory levels. The Thermul Business Area also reported in-creased profitability. The Automation Business Area has increased cornings and profitability, due to cost-reductions in combination with the integration of the acquired company SettCon-

Finance and Real Estate management maintained high carnings. The somewhat lower re-turn on capital compared with 1967 is connect-ed with this year's high income from the share

(MSEK)	inc	rating zome 1987	Return CORNER 1988	1, 7
Agri	216		30	2
food Industry	234 547	81 375	30 32 22	1
Operating Area Total Finance and Real Estate or		659	25 .	<u> </u>
Joint-Group	503	505	13	1
Income before financial	. 1,500	7,164	19	7
Financial expense	-447	_363		
income after net linancial				
North	1,053	801		
Full tax and minority share	s <b>–33</b> 7	-196		
Income ofter full tax	716	605	IB	1

COMPANY ACQUESTIONS

The American company Sharples was acquired by Alfa-Laval in December 1988. This reprethe American company Marples was acquired by Alfa-Laval in December 1988. This represents the Group's largest acquisition to date. The company specializes in decanter centrifuges used in environmental conservation and in the food and chemical industries. This acquisition makes Alfa-Laval the world-leading supplier of decanter centrifuges and complements the Group's program of centrifugal separators. The acquisition is of major strategic importance and will have favorable synergy effects on marketing, product development and production during the next few years. However, the effects on the 1989 income will be insignificant due to the costs of integrating the company's operations with those of Alfa-Laval.

The previously acquired U.S. companies
Cashin and Formax have formed a platform for
the development of a new division designed to
be a leading supplier to the expanding readycooked food market. An additional company,
Koppens Machinefabrick S.V. in Holland, was ac-Kappens Machinefabriek 8.V. in Holland, was cruired in December 1988. The company is a

world-leading supplier of machines and pro-cess lines for the ready-cooked food sector.

The following companies were acquired to-rards the end of 1988: Koltek, which will be the Flow Equipment Business Area's sales com-pany in Finland, Labora AB, Stockholm, a su-plier of instruments and accessories to labora piter or minimum and an accessore we assume rier in Sweden, and AB Albia, Stockholm, a paper and pulp cleaning company. The last two companies are part of the Zander & Ingustrius

The compenies acquired at the end of 1988 provide the Group with surnual sales of approximately MSEK 900. The 1988 income has not been affected by these acquisitions. Partial psy-ments for the Sharpies and Koppens acquisi-tions were made in 1988 and have thus affected the consolidated belance sheet.

During the past three years some twenty com-pany acquisitions have been carried out and add approximately SEK 3.3 billion to the Group's total annual sales.

**NVESTIMENTS** 

Investments in buildings, machinery and equipment amounted to MSEK 444 (424), and mainly pertained to investments in production machinery, laboratory equipment and computers for production control and R&D.

LIQUIDITY AND FRANCING

Total funds supplied internally during the year amounted to a surplus of MSEK 1,078, not including company acquisitions. This was attrib-utable to a healthy cash flow from after-tax income, capital rationalization measures and the sale of low-yield assets. Payment from the sale of the Alvik property (MSEK 630) was received in January 1986. A net total of MSEK 676 was inin Jamuary 1996. A net roots of DASE ROW was invested in company acquisitions. Thus liquid
funds increased by MSEK 402 from surplus cash
flow and by a further MSEK 503 from external
borrowing. Total liquid funds amounted to
MSEK 3,976 at year-end, which is MSEK 466
more than the Group's total external borrowing.
Group net financial items amounted to MSEK
138 (58) as specified below:

(MSEK) 1988 1987 Net interest income!

The improvement in net interest income was attributable to higher net liquidity and a higher surplus generated from the France Business Area, compared with last year. The negative exchange differences are on the most part attributable to the Group's Brazilian subsidiarles. ome was realized mainly from capital gains on the sale of tr

PERSONNEL .	1988	1987
Average number of employees in Sweden Average number of employees	. 5,114	5,539
outside Sweden	12,042	10,572
Total number of employees	17,156	16,051

The average number of employees increased by 1,105. Company equisitions less company sales resulted in an increase of 411 employees. Consolidation of subsidiaries in India added 1,128 employees. Rationalization measur mainly in the Food Engineering and Sep Business Areas, decreased the number o

FORECAST FOR 1989 During the first two mouths of 1989, order bookings were up 25 percent over a year ago, of which recently acquired companies accounts for 5 percentage points.

It is anticipated that the Group's invoiced sales will increase by approximately 15 perce

sales will increase by approximately 15 per in 1989. A continued improvement in incor

CONSOLIDATED INCOME STATEMENT **IMSEQ** 1988

	.,,	1,00
rvoiced sales Costs of goods stild,	12,401.0	11,320.5
ioling, etc.	-11,143.2	- 10,278.8
Operating income before depreciation	1,257.8	1,041.7
Formed depreciation	- 342,9	- 299.4
Operating income after	1	
depreciation ·	914.9	742.3
inoncial income and expense	136.1	58.3
ncome after financial income and expense	1,053,0	800.6
Straandinary Income and expense	8.9	465.2
ncome other extraordinary ncome and expense	1,061.9	1,265.8
ump sum velte-down of goodwill Viscosty share insubsidiaries'		÷ 565.9
ncome	- 27.9	_ 7.8
ncome before allocations		
and toxes	1,034.0	6921
Socialors	56.9	- 158.0
ncome before toxes	1,090,9	534.1
COMES .	- 354,2	- 279.1
Net income for the year	736.7	256.0

DIVIDERD AND PROPOSED DISTRIBUTION OF UNAPPROPRIATED EARNINGS

The Board of Directors have proposed that the Armual General Meeting approve a dividend of SEK 15.50 (13) per share, which will require MSEK 227.5 (190.8). It is also proposed that the par value of Alfb-Laval's shares be changed from SEK 50 to SEK 12.50 by conversion of one SEK 50 share for four shares of SEK 12.50 each.

ANOUAL GENERAL MESTURO The Annual General Meeting will be held at the Stockholm Fair, Alvsjö, at 4:00 p.m. on Wednesday, May 10, 1989.

> Stockholm, 15th March 1989 ALFA-LAVAL AB The Roard of Directors

Alfa-Laval AB, P.O. Box 121 50, 5-102 24 Stockholm

THE COUNCIL OF EUROPE RESETTLEMENT FUND FOR NATIONAL REFUGEES AND OVER-POPULATION IN EUROPE

ECU 35,000,000 11%% 1983-1983

The bonds so drawn bear the numbers comprised between 2303 and 5302, there

These bands are redesmable at par and cease to bear interest on May 31, 1968. The amount remaining equatending will be ECU 23,000,000. Finally it is received that the following band mumbers which have been drawn to 1900 have not yet been presented for payment;

21625 - 21627; 21692 - 21693; 21705 - 21706; 21796 - 21797; 21628; 21829 - 21656; 21822 - 21940; 22011 - 22037; 22182 - 22183; 22210 - 22212; 22238 - 22297; 22388 - 22297; 22391 - 22390; 22391 - 22394; 22387 - 22390; 22382 - 22393; 22493 - 22409; 22409; 25778

YARLY REDEMPTION ordance with: "Early Redemption" of the Terms and Conditions of the Bends, notice elsy given that the Fund with propey at 122 per cent of their principal assess on 11. 1988 the local absolut of the Bonds revealing outstanding Le. ECU 23,000.004.

BANGLE INTERNATIONALE A LUDEMBOURG Société Anonyme Principal Paying Agent

Luxenthours, Merch 17, 1989

TO THE HOLDERS OF COMMON SHARE **PURCHASE WARRANTS OF COMINCO** RESOURCES INTERNATIONAL LIMITED

NOTICE is hereby given to the holders of Common Share Purchase Werrants (the "Warrants") of Cominco Resources international Limited (the "Corporation") of the offering by the Corporation to its shareholders of rights to subscribe for approximately 8,100,000 common shares. The record date for the offering will not be earlier than April 19, 1989 and will be published when determined. Holders who exercise their Warrants and are characterists of record on the record date will receive published when usuariminou. Holders who exercise mair wairs and are shareholders of record on the record date will rece rights certificates enabling them to participate in the offering.

The offering of rights may require an adjustment to the subscription rights granted by the Werrants. When the adjustment is determinable further notice will be own to the holders of

DATED March 16, 1989 Vancouver, B.C.

A. A. Zoobkot Corporate Secretary

O ALFA-LAVAL

rity both for Itself and the elec-

obscured by its long-term interest repayments, which will this year turn an operating profit of

some £450m into a bottom-line

loss of £100m. But its progress will be more apparent as sooo

as the Government writes

down these long-term debts, as it did before privatising the steel industry. The financial reconstruction of coal, expec-

ted in a year or two, will also be influenced by the Govern-ment's longer-term plans that it should follow steel and elec-tricity into the private sector. Meanwhile, it is instructive

to compare British Coal's posi-

tion with those of its sister industries in continental Europe. In 1986, government subsidies to British Coal amounted to \$1.85 per tonne of

output. In West Germaoy, Fraoce and Belgium, govern-ment subsidies ran at \$23.51, \$32.20 and \$40.82 per tonne

\$32.20 and \$40.52 per tonne respectively.

Another feature of the new coal age is the proliferation of advanced mining methods and

equipment, and the transfer of

underground technology from

the older coal countries to the new. Longwall mining meth-ods, plonecred in Britain and

Germany, are being introduced

into new collieries in Australia

and the US. British expertise is

beiog traosferred to China. India and other third-world

states through British Mining Consultants, a British Coal-sponsored body. The Russians,

Germans and Americans are also involved in overseas min-

Its underlying progress is

tricity consumer.

# FINANCIAL TIMES



Since the oil crises of the 1970s there has been a surge of new coal mining on a world-wide scale,

writes **Maurice Samuelson**. It is marked by large-scale investment. technological innovation, tough competition between producers. and concern for the environment.

# The old king fights back

IN THE days when it was users, it was seen as more confrequently dismissed as "old venient and cleaner to use. It King Coal", there was a widespread presumption that the coal industry's days were num-bered. As the fuel for the steam engines of the industrial Revo-lution, coal had played a cred-

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E. Then In

Constitution of the second ttable part, but it was now a thing of the past. By the middle of the 20th century it was being squeezed out of its biggest markets, the power stations and the railways which were being con-verted wholesale to oil.

The new fuel was cheaper, and, although it had to travel by sea and pipeline to its end-

World coal reserves

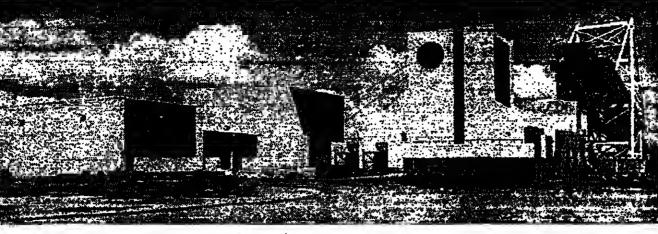
venient and cleaner to use. It also lacked the political prob-lems associated with a notoriously militant labour-force. Nuclear power, regarded as even more attractive for electricity production, was also on the increase, and natural gas invaded the heating market. Throughout the 1960s, some of the world's proudest coal industries were cut to ribbons. Between 1961 and 1971, some 400 collieries were closed in

Britain, and some 300,000 min-

ers sought alternative employ-

ment. In the developed coun-

Billion topoges (bracketed florings are share of total represented by bituminous coal and anthracite)



# Modern Coal Mining

regarded as irreversible.
Then came the dramas of the 1970s and the oil-price explo-sions which rocked the world. Overnight, power utilities that had switched from coal were clamouring to return to it, and began a wholesale re-conversion of their generating capac-ity. Coal was also benefiting from the electrification of many railway systems, replacsel locomotives.

Coal's great attraction was its sheer abundance, compared with the growing scarcity of oil that had triggered off the oil-price explosions. Unlike oil, most of which was in the unstable Middle East, coal was present in many parts of the world, and its production was less subject to the whims of mercurial politicians. Most reserves were also in the terri-tory where the coal was needed, though sizable quanti-ties were available for energyhungry countries which lacked large reserves of their own. Billions of pounds were

poured into new mining ven-

tures, often by international oil

companies, dismayed by the sudden loss of their lucrative

Many of the new mines were opencast, to exploit shallow seams, whose easy geology made up for their difficult geography – although far from their markets, their coal was close to the surface and on electricity demand. In the second half of the

could be mined cheaply.

Where the seams lay too deep for surface stripping. ambitious new underground projects were developed to reduce overall costs. One of the most spectacular is Britain's fl.3hn Selby project in North Yorkshire, destined to produce more than 10 per cent of the country's coal needs over 30 or more years from a coalfield the size of the Isle of Wight. It is already the country's most effi-cient deep-mined operation, with efficiency levels approach-

ing those of US mines.
In the decade and a half since 1973, however, coal industries have experienced setbacks as well as hreakthroughs. The long-range demand projections used for many of the new investments proved to be wildly exagger-ated. They failed to predict the depth and duration of the ecocomic recession which fol-lowed the second oil shock of 1979, and its depressing effect

1980s, coal producers were also stunned by plummeting oil prices, and many new mines were unable to repay the cost of their capital charges. increasingly, producers have found themselves competing found themselves competing with each other, rather than against rival fuels. Prices are now rising again. But, more recently, the industry has been aware of growing public and political sensitivity about the effect of fossil-fuel burning on plant life and the atmosphere. plant life and the atmosphere. Nevertheless, the momen

tum of 1973 is still strong, and the year is recognised as hav-ing been a watershed in coal industry history. One interna-tional coal trader says it heralded the beginning of a "sec-ond coal age".

It is symbolised by the scale of new investments, their wide-spread distribution, the sharpening competition between various producers (old and new), the rush for more effimining methods and technologies, as well as advances in ways of transporting and hurning coal.

Oo the commercial front, the world has seen the emergence of an international sea-borne trade in power-station coal, alongside that already established in the more specialised coking coals for the steel industry.

The sea-borne shipments of both categories of coal - 340m tonnes in 1987 - are still only 7 per cent of the world's total hard coal sales. But they repre-sent a new intensity of competition between producers in the new and the older coal indus-tries. The biggest additions to capacity are taking shape in

China, India, North and Central America, Australia, South Africa and Indonesia.

In China (now the world's biggest producer), India and the Soviet Union, expansion of output is intended primarily to assist national industrial delegations. opment. But China would also like to sell some of its coal for foreign currency, to help finance its industrialisation. Whether it succeeds, depends on whether it can meet its own

needs and can iron out logisti-cal problems in transporting coal over long distances. In Australia, Colombia and Venezuela, new mines are dedicated to the export market. Those in the US are mainly for tha domestic electricity market, but can easily channel surplus tonnages on to the world

market.
In the older coal-producing countries, the emphasis has een on cost reduction, to compete with imports or to exclude them by internal subsidies British Coal, the noo-com

munist world's biggest coal

World hard coal production 2500 2000

North America 75 77 79 81

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Englacing the cost-face The Selby project UK overview

Alternative roofing Free-steered vehicle

utility, tries to confront the competition head on hy drastic restructuring. It has achieved a 75 per cent boost in productiv-ity in the past four years through closure of high-cost capacity, and by streamlining the remainder with more jobcuts, and investment in sophisticated equipment and more flexible procedures, such as retreat mining.

It now strives to become, in the phrase coined by Mr Cecil Parkinson, Energy Secretary, the "supplier of choice" to an electricity industry on the brink of privatisation. The electricity industry says that, unless British Coal prices are further reduced, it will use less british coal then in the part British coal than in the past, and could also make greater use of its largely unused oil-fired power stations and new gas turbines.

To counter these threats, British Coal is intensifying its re-structuring programme.
With world coal prices having
risen by 30 per cent in the past
12 months, it says it will be able to guarantee long-term bulk contracts based on the sustainable world price of coal.

Major producers (m tonnes)			
	1973	1987	
China	417	870	
US	530	761	
USSR	461	516	
Poland	156	193	
India	78	177	
S Africa	62	176	
Australia	55	147	
UK	132	104	
W Germany	103	62	
N Korea	30	39	
Czechoslovakia	27	25	
World	2,201	3,262	

ing vectures.

The exchanges are not all in one direction. Engineers in Europe, for example, have a healthy respect for the experience and skill of Chinese mining engineers, who frequently contribute learned papers to international organisations. And British engineers are try-ing to assimilate the experience of Australians, Americans and others in such areas as mof-botting

But, for all the changes, coal mining is also an industry of continuity and tradition. In some of the small, profitable private mines in Britain, for example, one can see methods and types of machinery that were common at the beginning of the century.

For all the advances, too. mining remains a dangerous and unpleasant occupation, requiring constant attention to safety. Its costs can never be measured exclusively in finan-

#### 244.7 (108.0) **Europe** 95.4 (34.8) 77.5 (31.6) 263.8 (132.0) 170.0 (156.4) Africa 65.9 (65.7) Asia 20.6 (15.6) Latin America 65.9 (27.5) 7.0 (2.7) Unlike oil and gas, the world's reserves of coal are rather more evenly distributed around the globe. ass, the USA, the USSR and China are endowed with very much larger reserves than any other area

The industry in Australia has parallels with that in the UK

# Top of the exporting league

AUSTRALIA and Britain may be poles apart geographically, but as leading coal producers they display antipodean differences laced with uncanny similarities.

The comparisons, a product of history as well as of geography, embrace the whole spectrum of problems faced by their coal industries — in international markets, mining practices, labour relations, and political status. ..

On the eve of the first world war, Britain was the world's biggest coal exporter, with sales of 100m tonnes a year. Today that crown is held by Australia, which, although only the world's seventh producer, exports the same amount as Britain did before 1914, while modern Britain has become a marginal net

importer. The proverhial advice against "carrying coals to Newcastle" is more meaningful when applied to the port in New South Wales, one of Anstralia's biggest coal outlets, rather than its older namesake on the

While British Coal's prosperity depends on its ability to stave off imports, some 70 per cent of Australia's coal is sold on the world market, mainly in the Pacific but also as far away as Europe — and in Britain itself.

Britain itself.

Britain has been digging coal for so long that most of its shallow reserves are exhausted, and its present underground mines, producing about 85m tonnes a year, are among the deepest in the world. It would like to produce more from the remaining shallow reserves than the present 15m tonnes, but is boxed in by population density and environmental restric-

Australia's exports come mainly, but not exclusively, from its hig surface mines, developed in the aftermath of the 1970s oil price explosions, with the minimum enviroomental constraints. But, as the shallower reserves are whittled away, underground methods are becoming more economical. Some of the best perfor-mances are now from mines such as the Ulan mine, near Mudgee in New South Wales, Australia's most productive long-

wall face.
To cut overall prices, Britain has shut more than half its deep mines in five years and nearly doubled productivity from the remainder by using more powerful machines and greater flaxibility in man-

The Australians, worried about competition from other exporters - South Africa, the US and newcomers in Latin America and China - have pursued the same pol-

icy, closing uneconomic capacity, cutting manpower, installing high-productivity equipment, and insisting on more flexible

Underground, some of the best results are now achieved in mines adapted to the longwall operations, of which there are now more than 20 in Australia.

now more than 20 in Australia.

Most, like Ulan, are equipped with British-designed Dowty roof-supports and armoured face conveyors. Britain's Anderson-Strathclyde supplies many of the shearers, together with Eickhoff of Germany and Mitsui Mike of Japan.

Another world-beating deep mine is at German Creek, Queensland, in which Brit-ish Coal has a significant minority share-

In labour relations, too, there are similarities and contrasts. The Australian workforce is highly unionised, with a strong streak of left-wing militancy in New South Wales. Unlike Britain, the Australian is the power. tralian union represents men in the powerful opencast sector as well as under-

ground.

Last year, the independent Australian Coal Industry Tribunal recommended the unions to accept new working arrangements aimed at making more productive use of expensive capital equipment and new technologies. The package would also ensure much higher wages for Australian miners than those paid in some other, newly emerging coal producing countries.

In urging acceptance, both owners and

In urging acceptance, both owners and moderate union leaders repeatedly cited the aftermath of the 19845 British strike as an example of counter-productive obstinacy in the face of relentless market forces. The implication was clear: if it blocked the reforms, the Australian workforce would go the way of Britain's, which had been slashed from 207,000 to 87,000 in

the past seven years and with no visible end to the "slaughter". The whole debate – and the resistance initially encountered - is strongly reminiscent of British Coel's recent efforts to obtain union pledges of six-day produc-tion. The difference is that the Australians want it in existing collieries - for the time being, it is mooted in Britain only for

new mines.

In Britain, six-day working has been approved by the Union of Democratic Mineworkers, but is still officially anathema to its higger rival, the National Union of Mineworkers. The Australian unions reluctantly accepted the package. But militancy and strikes still plague individual

The biggest contrast surrounds the two

industries' fiscal framework. In Australia, where coal has become the biggest export commodity, the state authorities levy a sizable economic rent in the form of rail freight charges. The coal companies com-plain that, like unrealistically high wage settlements, these "royalties" should be restrained if they are to keep their export

In Britain, the coal industry has long been a recipient, rather than a generator, of government funds. But it now makes a colossal operating profit, and it is only a matter of time before a write-down of its debts make it a respectable tax-paying

At the same time, it is fighting to retain its business with its biggest customer, the electricity industry, which threatens to diversify its fuel-burn as soon as it has

There is a widespread assumption in Britain that large tonnages of Australian coal are likely to enter this breach in the UK energy market. But it means little in Australia, whose pits are geared mainly to supplying power stations and steelworks

sales to Britain is not ruled out, few min-ing officials in Queensland and New South Wales expect to win large-scale base-load orders. Their scepticism is founded on the long distances between the two countries, the impressive cost reductions achieved by British Coal to maintain its home market, and the historic protection enjoyed by British Coal.

The final contrast is in the industries' status and structure. Nationalised 42 years ago, British Coal would be privatised, and possibly broken up, if the Conservative Party retained power after the next elec-

Australia's coal industry is already fragmented and, for the most part, is in private hands with large shareholdings by overseas interests.

There is no prospect of coal's being nationalised, despite the presence of Mr Bob Hawke's Labor government. But Australian miners' leaders argue that the mines should be controlled by central government. ernment, to protect them from the notorious ups and downs in the coal market.

These calls are distant echoes of those

heard 50 years ago in Britain. It is paradoxical that they should be sounded at the very time that Britain's coal industry is being pushed in the opposite direc-



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AS AN extractive industry. coal mining is continually moving from old reserves of

nowing from the reserves of coal into new older nits close, new ones take their place.

In Britain, however, there is a yawning gap between new units and old. In the past five years nearly 100 collieries have been closed but only a handful. been closed, but only a handful are planned. For the most part, national output is to be main-tained by extending the remaining collieries, adopting new working methods, such as

retreat mining, and installing heavy-duty equipment.

The new collieries consist of the £1.3bn Selby complex in North Yorkshire, the two £500m "superpits" planned in the Midlands, and e £100m project in South Wales. Selby, consisting of five pro-

duction collieries and a single disposal outlet, is well on the way to completion. It will pro-duce 11m tonnes a year, com-pared with British Coal's cur-rent total deep-mined output of

83m tonnes e year.
Asfordby, the first Midlands
"superpit", is still at the construction stage - its surface workings are well advanced, and its two shafts are close to completion. The next stage would be to drive the main underground roadways.

The other Midlands superpit

at Hawkhurst Moor, on the eastern fringe of Coventry - is still on the drawing board. Whether it will be built depends on the outcome of the planning inquiry that began in January, and on government

policy.

British Coal wants to start work on its third "superpit", at Margam, in sonth Wales, within the next few weeks. Designed as a £100m driftmine, It is intended to extract Europe's last big deposit of prime coking coal for the British steel industry.

However, the project has been frequently aborted since its was first mooted nearly 20 years ago, and there is no guar-antee that unforeseen last-min-ute difficulties will not reappear this time.

The experience at Selby, posstbly the most ambitious capi-tal investment project under-

WITH HIS 46 years in coal

Coal's deputy chairman, enjoys

a panoramic view of the

changes which have enguised his industry during his work-ing life-time — from pick and

shovel to heavy-duty shearers,

from pit pony to the free-steered vehicle, writes Maurice

As the Corporation's

operations director, the quiet-

spoken Yorkshireman is its senior tactician and monitors

the daily impact of these

tion's strategist in charge of

major new investments, and its

large technical laboratories and workshops.

Both men rose to the Corporation's main Board in the

aftermath of the 1984-5 strike

in which, as coalfield directors,

they had played a notable part in pressing home the manage-

Both are keenly eware of

how much British mining can

teach other countries, and of

how much it can learn from

try in 1943," Northard recalls, "only one mine in the country

had a conveyor belt to remove

the coal."
In his first years, the men had to throw the coal on to

"When I entered the indus-

ment's point of view.

The Selby complex in Yorkshire shows the need for innovation, reports Maurice Samuelson

# On target despite geological setbacks

taken in Britain, illustrates the geological risk inherent in all mining ventures, and the con-stant need for innovation and flexibility to match unforeseen problems to absorb changing

technologies.
The project, anthorised in 1978, was for five deep mines producing 2m tonnes a year each, with two drift outlets at Gascoigne Wood each capable of conveying 10m tonnes of sal-able coal a year from those

But it has encountered a

The Selby coalfield

"Local" electricity generating stations, Ferrybridge, Eggborough, Drax A & B

2,000 megawatts each, Coal consumption 4/5 million tonnes

stemming from adverse geological features not revealed in the original exploration of the coalfield. These are being tackled in the course of develop-ment by various modifications. ment by various modifications.
Nevertheless, the project is on
target for complation in
1991-92, and is at present £80m
helow its budgeted cost.
Its coal, destined for the
nearby Aire Valley power stations, was originally to be produced from four retreat faces
per colliery, working two

machine shifts a day. The five mines would feed their coal into two 15km spinal conveyors, which reach the surface along inclined drift tunnels at Gascoigne Wood. There the coal passes through a 300-metre "coal shed", the biggest single span building in Europe, from where It is conveyed to merry go round trains departing every half an hour. In order to control costs, badly hit by underground flooding and other geological

problems, there has been a major alteration in lay-out. Instead of the spinal funnels extending the whole length of the coalfield, they are to be shortened by nearly 3,000m, and the coal from the furthermost colliery, North Selby, will be fed through other access

There are also changes in the working routine – four of the collieries will now work two retreat faces on a threeshift basis, rather than two shifts on four coal faces.

A different system altogether has been introduced at Wistow, the colliery nearest to the Gasthe colliery nearest to the Gas-coigne Wood disposal point, where a serious inrush of water led to the use of a min-ing method called "short single entry face mining". Unlike the longwalls of most British mines, the Wistow faces have only one entry point, and are as short as I5-35m, compared with the traical longwall of with the typical longwall of

Other changes are intro-duced to assure the lower dirt

content in the coal demanded by the electricity industry. Screening and washing equip-ment has been installed in the "shed" at Gascoigne Wood, and at the coal faces the coal is being cut by machines with automatic steering devices which avoid the dirt embedded in the seams.

Roof-bolting techniques have also been developed, to improve support to the road-ways and which, in the long term, should also cut the amount of dirt created by

repair work.

Mr Albert Tuke, British.

Coal's North Yorkahire area.

director, who is in charge if
the Selby project, summations,
its results so far as "socceptaing and disappointing."

His main disappointing.

His main disappointing.

stem from the fallors of the
initial seismic exploration by
reveal the degree of familiar
throughout the libenuare mile
coalfield, as well as other goological features which tour to
determine the layout for coal
extraction.

extraction.
These dictated the charges in the original production plans which, on several tensions, have seriously disrepted or curtailed mining operations. They were also responsible for the excessive dirt in the continuous processis.

proceeds. Nevertheless, says Mr Tube. Nevertheless, says Mr Tube, Selby's overall performance remains encouraging. Despite the problems, its productivity rate this year has been more than 8 tonnes of coal per manistif (OMS). At times it has exceeded 18 tonnes OMS, and one of the collieries. Stilling fleet, last June achieved more than 25 tonnes.

Big savances in mining technology had also been achieved.

a The spinal conveyors, sup-plied by Anderson Stratholyda and Cable Belt, were running for distances of more than 12km at an average gradient of

Free-steered vehicles were in use to develop roadways;

At Wistow, a single entry ity of 254 tonnes per man/shift:

Roof bolting had been estab-lished as a safe, total means of roedway support in certain cir-cumstances, rather than just as additional support;

The use of heavy-duty sup-ports had been proved in diffi-cult stratz and great depth.

Automatic steering had been introduced on face cutting

# A UK OVERVIEW

Seam thickness varies from 2 metres to

3,25 metres. Seam depth (from surface) varies from 250 metres in the west to 1100 metres in the north-east of the coaffield.

# Much to teach and learn

pories, which played a vital part in carrying heavy materi-

als below ground. That followed a concerted campaign by animal lovers, despite claims by miners that they were cared for very humanely and that it would make their own jobs much

changes on its performance. Ken Moses, his more outspomore difficult.

At Rawdon colliery, Leicestershire, where Northard was ken Lancastrian colleague, is several years younger but is still a veteran in the country's manager, the men complained that Northard had "taken out most youthful industry - its the ponies and put in the miners' average age is 34.
As the industry's technical director Moses is the Corpora-

Thereafter, Northard was in the forefront of trying to develop substitutes for the pony as a means of under-ground haulage. The final outcome were the free-steered vehicles, of which British Coal now boasts about 400 through-

out the industry. One of the main areas for improvement now, he says, is in speed of tunnelling new faces to keep up with fast retreat mining. In contrast with an advancing face, in which the side roadways are developed as the longwall moves forward, the roads are developed first and the long-wall moves back along them.

Northard attributes the difficulties in equal part to machin-ery and organisation. "In the US and Australia; however,

they do in one shift what takes us three weeks", he says.

Taking a broader view, his colleague, Ken Moses, says the biggest savings in capital investment would be a faster tubs, which had to be manhan-dled for 200 yards before being wound towards the shaft bot Later in his career, Northard had to cope with the difficul-ties caused by removing the pit way of sinking new shafts and



John Northerd



developing the main under ground drivages. At the new Asfordby super-pit, for exam-ple, this has accounted for much of the £100m. of up-front capital spent on its initial development over the past four

Four years were also being allowed to sink the shafts at Hawkhurst Moor, the second Midlands super-pit. "If that could be achieved in 12 months it would give a major saving in capital", he says. Metal mining industries had sunk shafts the roof.

industries had sunk sharts much faster, although unlike coal mining they rarely had to contend with heavy flooding.

In other respects, British coal mining had played a ploneering role, They included:

Seismological exploration; ■ Long-wall mining and equip-

■Flame-proof conveyor beltadvanced machine mainte-

The use of seismology was a spin-off of the oll industry boom of the 1970s, when oil exploration and drilling techniques were adapted to coal prospecting. However, seismic surveys were still unable to reveal faults less than seven metres thick and more than

one mile deep. Horizonal seismic probes were also being used below ground, to explore for coal up to 1,000 metres away. In "winning the mineral", says Moses, Britain was "argu-ably the world leaders" in

long-wall mining. It was "on the back of our experience", he adds, that British manufacturers had such a big slice of the international market for longwall equipment. In this system, pioneered in England and Germany in the

last century, twin roadways are driven on either side of the are driven on either side of the panel of coal which is to be mined. The coal-face is developed in a passage connecting the roadways, and the coal is extracted by a mobile shearer shuttling back and forth like a bacon slicer.

164 acres

63 acres 64 acres

80 acres

Mine site surface areas (including

landscaping provision)

Stillingfleet mine

North Selby mine

Riccali mine

Gascoigne Wood drift

The coal is swept away to one of the roadways by an armoured conveyor and as the face retreats powered roof supports move forward to hold up

Nine or 10 miners are cur-rently employed on a longwall face but by greater integration between the key components of the face, the industry is slowly moving to a stage where, in 10 to 20 years, a standard face will tors."

"That might seem slow progress but remember that it was not until 1976 that the first shearing machine was steered automatically along the coal face to distinguish between

coal and dirt. But there will soon be automatic steering on 50 out of about 230 coal faces and on half those where it is practical by the end of 1990."

Moses is particularly proud of British Coal's pioneering role in the art of "predictive He defines this as developing machines which warn the oper ator of an impending break-down and give time for correc-

The techniques include analysing the gear oils of heavy duty machines for signs of metal wear or the entrapment of gases in transformer oils. British coal's experience in this field was now benefitting

other industries, including Fords at Dagenham.

**ASFORDBY** 

# Roadways like the Tube

BRITISH COAL will shortly have to decide whether to pro-ceed with the next stage of its £400m Asfordby super-pit, in the north-east Leicestershire coalfield.

Thanks to an agreement with the Union of Democratic Mineworkers on six-day pro-duction, the pit will produce am tonnes of coal a year, mak-ing it one of the leading mines

in Europe. Thanks, as well, to the use of heavy-duty equipment and other features, Mr Len Harris, Nottinghamshire area director in charge of the Asfordby project, looks forward to productiv-ity levels of 14 tonnes per man-shift (OMS), the highest in the country.

At present, the contractors are completing Asfordby's two shafts and associated surface works. When the shaft bottoms are coupled together, the Corporation will consider whether to but the contract for its to let the contracts for its underground roadways.

There is some uncertainty as to how soon this work will be carried out, not least because of the difficulties anticipated by British Coal after the privatisation of the electricity industry, its leading customer.

Site work started in August 1984, with the first access roads into the site and shaft sinking began a year later. The eight year project is now therefore at year project is the same and expenditure of £124m. has so far been authorised, of which £100m.

has been spent. On the surface, roads have vided. Cooling and process water are brought in via a 18km pipeline from the River

Asfordby's most distinctive features will be its main arterial roadways, which will be more reminiscent of the London Underground than those normally associated with Brit-ish coalmines. The roadways— will be sheathed in tubular sec-tions of reinforced concrete, fitted together like large drainage

Pioneered and widely used in Belgium, this system has been little used in British mines. The concrete segments are sim-ple solid blocks with no boited connections and produce a tunnel with a smooth bore. This is contrary to normal civil engineering practice in which the segments are usually boited together but in Belgium it has been shown that this type of construction is more suited to

coal mining.
Designed to withstand the huge pressures which cause floor and roof to convergence, it will be expensive to install but will cut the long term cost of roadway repairs in manpower and materials. For example, at Coventry colliery, which has particularly difficult underground conditions, up to 300 men are cometimes engaged on roadway repairs.

The circular roadway supports will also cut Asfordby'e costs by speeding up the access of men and materials to the productive areas of the mine. In sinking shafts, the main going down through water-bearing strata. The 600 metre deep Astordby shafts water no exception.

exception.

Between 280 and 400 metres, below ground, hundreds of gallons a minute entered the shaft and British Coal had to decide how its main contractor, Cementation Mining, should tackle it.
The options were to use of the tack of tack

wells, to overwhelm it with cement, or to freeze the water. It chose the freezing method. This involved drilling a ring of 39 narrower shafts around the circumference of the main

Under the supervision of a specialist company; British Drilling and Freezing the outer ring was filled with brine and then frozen by a 204W industrial refrigerator installed

on the surface. The whole freezing process lasted 20 weeks, during which the concrete towers for the shafts' head-gear were built. The frozen shafts were then

lined with a 1-metre layer of reinforced concrete. The shafts and the initial underground work are now due to be completed by the end of 1989. The next stage of contracts will be for the mine's underground roadways. The next two or three years should also see construction of the mine's coal preparation plant and its rapid rail loading point:

Maurice Samuelson

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# Maurice Samuelson examines the role of British Coal's technical department

been built and electricity and

# Coal's fingerprint reveals its nationality

85m tonnes of coal a year from its underground mines. What it does not normally disclose is that its mines also produce about 60m tonnes of unwanted dirt, which have to be separated from the coal if it is to be salable.

Achieving this separation is

one of the main immediate tar-gets of British Coal's technical department, which plays a wide-ranging role in trying to boost efficiency and quality through improved technology.

Tha department, now directed by Mr Trevor Massey, one of the corporation's leading mining engineers, was set up after the 1984-5 strike, to ensure that the needs of the corporation's business plans were met. It attempts this by: setting technical standards and

spearheading technical innova-tion; and undertaking mining search and development. The department employs 500 technical staff at Bretby, near Burton-on-Trent. It also includes 300 people at laboratories at Brethy and at Wath-on-Dearne, in South Yorkshire, providing Scientific services to the industry. Last year, the department listed its targets as ■ The level of non-productive

work underground; Coal siz Speeds of tunnelling;
Output at coal-faces;

Transport costs;
Efficiency of supplies pro-Health and safety standards. Among the ecientific achievements was develop-ment of a method of "fingerprinting coal, by analysing the plants from which it was formed hundreds of millions a

year ago. This has a commer cial and political value. As a result of work carried out by scientist Pamela Sprigg, at one of the department's labs, the corporation is in a position to tell customers whether or not coal sold to them as British is really produced bloombred. is really produced elsewhere, such as in South Africa.

such as in South Africa.
Dirt management, Bretby's foremost priority, also starts below ground at the coal-face and depends on the accuracy with which the shearing machine can distinguish between the coal and other unwanted minerals. Unless it is removed from the coal it is removed from the coal, it raises its ash level, and the electricity industry, British Coal's biggest customer, will cut its payments accordingly.

Roughly a quarter of all dirt seam rather than the seam The department is also

developing better ways of mon-itoring dirt from elsewhere in the mine, as well as better methods of handling the dirt. At the coal-face, dirt can be reduced, thanks to the presence of guidance computers on the shearers which automati-cally maintain a fixed cutting on within the coal seam's

One technique, unique to Britain, locates this boundary by registering the differences in the natural gamma radiation emitted by the shale above the seam and the coal itself. The radiation from shale is 10 times as strong as that from

This technique has three commercial applications, of which the biggest-selling is Midas ( machine information minas ( macnine information and disgnostic system), made by Anderson Strathclyde. The others are Diam, supplied by British Jeffery Diamond (part of Dresser Industries); and Pathfinder, produced by Mining Supplies, part of the Gullick group.

Some 90 systems have so far

ne 90 systems have so far

of annual coal output, are operational. Another 48 are committed in the next financial Overseas, the first Midas is

being demonstrated in an Australian mine, and discussions are being held with the US Bureau of Mines about a pilot scheme in a US mine.
On the coal-face, Brethy has

of the coal-face, Brethy has also developed: mathods of accurately aligning the 200-yard armoured conveyors, which sweep away the newly-wrought coal, and the battery of powered roof-supports which cover the coal-face.

Such co-ordination is all the more important following the

more important following the arrival of heavy-duty faces capable of churning out 1,200 tomes of coal an hour. Unless the feet converse for the feet coal and the face conveyor feeds coal accurately on to the longer roadway conveyors, the syste could snari up, swamping the area with coal, paralysing production, damaging equipment and injuring miners.

The next major research stage will be to integrate the controls on all these different production machines, As a result, fewer face-workers would be needed, although, according to Mr Massey, the

is produced when the coal-face power-loading machine cuts into the roof or floor of a coal of annual coal output, are operproduction. "We will keep the

man on the system but limit his role", he says.

Elsewhere below-ground, manning reductions have been achieved by using computerised remote monitoring and control techniques, and by avoiding madway renair work. avoiding roadway repair work, which accounts for 9 per cent of all EBG shifts.

The standard monitoring tool is Minos (mine operating system), available for more than a decade, and of which about 150 are operating in more than 90 collieries.

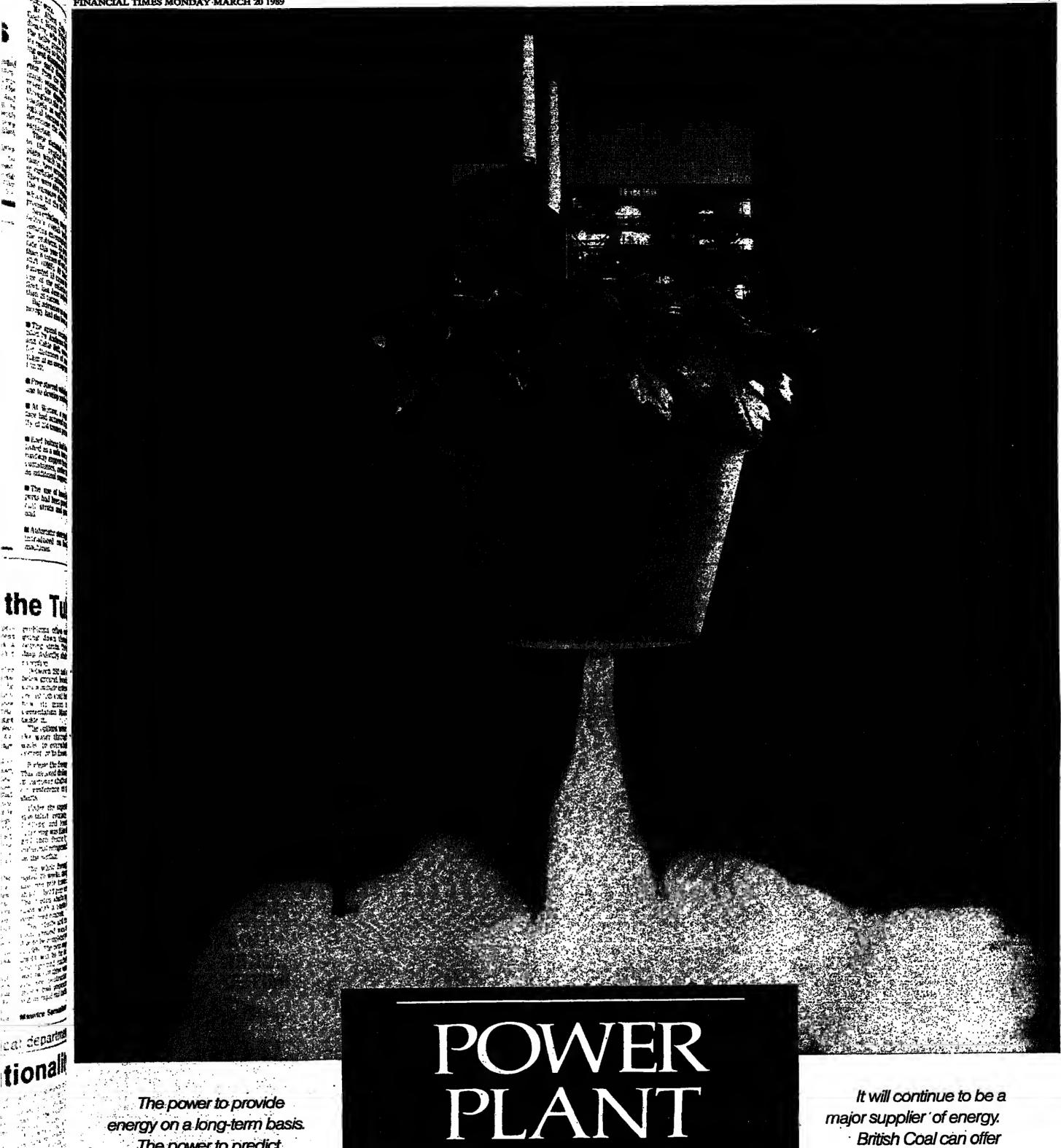
While the basic principles of Minos are well established, Bretby is currently trying to widen its applications and to integrate it with other systems

in some colliery control rooms.
On the environmental front, On the environmental front, ventilation methods are being developed to cut methods are being developed to cut methods are being developed to cut methods are leased at the rate of one cubic metre per second on a 1.5m-tonnes-a-year coal-face. Bretby therefore has to meet the safety regulations which require that it be diluted to only 1.25 per cent of the content of the surrounding air.

See also Cutting out the cliri-page 4 of this survey.

page 4 of this survey





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THE NEW FACE OF BRITISH COAL

PIT PONIES have been pensioned off. The Welsh cob now enjoys a more rustic and much happier existence, cour-tesy of mechanisation, than did the 23,000 ponies inherited by the National Coal Board in

After the pit pony, now used by British Coal in only one mine, came the locomotive; the flameproof underground vari-ant of this species celebrates its 50th anniversary this year. Coal and the materials used to transport it to the shaft moved more quickly and in greater quantities.
The beast of burden was not

yet free - the fixed route of the locomotive prevented its access to all areas of the mine. Pointwork, sleepers and rails all added to costs. It was only with the appearance of a wheeled and rubber-tyred wheeled and rubber-lyred vehicle not tied to a set route — in other words, a free-steered vehicle — that true flexibility had arrived in

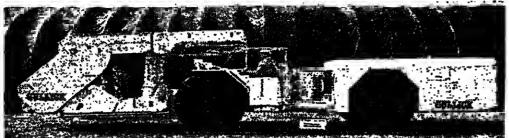
mechanised mining.
This independence of movement is exploited at all stages not least when new faces are opened. Roof supports which move behind the shearer cutting the coal are regularly conveyed to their initial point of installation by FSV; while, by adding a seating section, miners can also be transported,

saving time underground. FSVs possess yet another advantage — special equip-ment can be operated from them, using power sources car-ried by the FSV. Thus, by means of a telescopic attachment, the roof of a roadway can be smoothed out. Roadway floors may be scraped flat or "dinted" with shovels, thereby combatting geological pres-sures which would reduce roadway height. Drills and hydraulic hammers can also work from the FSV, using it as

a firm base. Discussions continue as to whether FSVa should be diesel electric cable - or battery powered. Traditionally, diesel power has had the upper hand in British Coal mines. In this case, the engine (usually supplied by such manufacturers as wehicle width and height allow

Michael Schwartz on free-steered vehicles

# The ponies' legacy



A Guilick Dobson M150 free-steered vehicle transporting a heavy roof support

made flame-proof.
The Nottinghamshire company Becorit Ltd has under-taken this conversion on more than 300 units now in service, mainly through a "dry flame-trap" which removes all unwanted heat through the radiator using a special heat exchanger. Personal comfort

and safety are further improved by washing exhaust gas in a water-conditioner box. The result is a self-contained power-pack requiring no inter-mediate attention during a British Coal now runs almost 400 FSVa, more than 300 diesel-powered, and 62 run-

ning off a cable (battery-pow-ered FSVs have only just received British Coal acceptance). More than 200 have heen supplied by EIMCO, a division of Baker Hughes in Gateshead. The newest diesel vehicle from EIMCO works off Caterpillar power-packs, capable of 150hp, and can carry 20 tonnes, heavy by FSV stan-dards, by fitting twin front

Complementing EIMCO'a battery-powered FSVs is a new Storme vehicle capable of 6km per hour and specifically aimed at working in confined mining operation in roadways as nar-row as 2.7m,as well as close support work in restricted

parked on a 1-in-4 gradient. When batteries need to be changed, EIMCO supplies a centrally-located battery charging station, with its own chains, to lift and lower the batteries.

Free-steered vehicles, despitetheir continuous development, are in no way exempt from British Coal's drive for safety. Last year, the Health and Safety Executive's Annual Report described a 28 per cent reduction in accidents occuring during haulage and transport operations, but FSVe etill accounted for five accidents.

On occasions, devices enhan-cing miners' safety are devised hy the very men who work with the FSVs. At Prince of Wales Colliery, in North York-shire Area, hydraulic rams powered from vehicle-mounted batteries pull roof supports on to the FSVs' flat beds. The supports are secured by a girder, and chains are in turn anchored at the ram ends to the roof support canopy.

Prince of Wales Colliery miners developed this system to assist the rapid transfer of mining equipment from one face to another.

Developed as an alternative to

the Baum jig, it has the added advantage of being abia to treat a similar size range of

There are fewer mechanical

and electrical items, and the separator itsalf is much

cheaper than either a Baum jig

or conventional dense-medium

separators. The power on the plants upon which it has been installed works out about half

that for Baum and dense-medium plants. In fact in one par-ticular installation, at Point of

Ayr Colliery, the operating costs, including depreciation, worked out at £0.85/t salable.

is that, since there are no mov-ing parts, the unit requires no regular maintenance, in a strip

down of a Larcodems system

the conclusion was reached

that the normal three replace-

ahle parts - raw-feed pipe, reject nozzle and clean coal

nozzle - will last two years,

and that the main body and

the other parts should last five.

Consulting Editor, Colliery Guardian Journal

Keith Whitworth

A further point in its favour

also stresses that its 10SC11 uses an electrical soft-start, allowing the a.c. motors to start without jerking, and to move forward inch by inch— of special value when a load is to be discharged, or where the vehicle is working near other equipment. Good ground clear-ance and a winch for 200m of British Coal approved cable are further features.

Manpower reductions have been a major consequence of the FSV in Britain's coal mines. Holman Tamrock has used this factor in promoting the Roadruma 4T. The com-pany, which assembles the Roadruma's chassis in Finland and fits UK engines, flame traps, gearboxes and exles, vis-ualises the FSV virtually eliminating the manual handling of materials, and thus lowering beadcounts. Roadruma 4T is designed to carry loads over its axles - in the case of its persomel transportation module, at speeds of 20km per hour. One further role for the

model is to support machines drilling the new roadways needed before a face can commence operations. Holman Tamrock claims that other vehicles in their range can drive two 60-metre tunne two weeks supported by the Roadrunna FSV. For the immediate future,

hattery power represents the major change for FSVs. Inger-soll Rand, the largest supplier of hattery-powered FSVa in US coal mines, was the first company to have a vehicle of this type approved by British Coal, after trials at Kellingley colliery. Its 601E uses a d.c. motor connected directly to the axle, and is powered by batteries of 900 or 1,200 amps per hour.

A capacity for 14-tonne loads, 1-in-4 gradients and for scooping materials of up to 3.1 on m demonstrates the strength of battery power. Low heat generation, compared with diesel, and no fumes are other advantages that will boost battery power's role in underground work.

☐ The author is Editor of Colliery Guardian Journal

#### MACHINERY

# Interest in longwalling lifts European exports

BY A twist of fate, British and German mining machinery enjoys a growing international reputation at the very time when demand from their own coal industries is being

equeezed.

The paradox stems from the growing interest shown in the US and Australia in the European longwall method of min-ing, rather than the room and pillar system prevalent in many US and Australian underground mines.

Longwalling involves build-ing two roadways up to 300 metres apart and 7,000 metres long, and slicing away the long panel of coal between them. Room-and-pillar work (also known as bord-and-pillar) involves extraction of large

involves extraction of large blocks of coal, leaving pillars of coal to support the roof. The British and the Ger-mans, who ploneered longwall-ing, specialise in the sppropri-ate machinery, particularly the mobile roof-supports, the ehearers and heavy-duty

conveyors. Such sales contributed much of the £200m worth of machin-ery exported by British equipment manufacturers in 1986 the last year for which figures have been published. German exports were running at a simi-

lar level. British companies supply just over a quarter of the whole longwall market in the US. Last year they provided roof-support systems in 40 out of 108 longwall mines; cutting machinery in 21; and the face conveyor in eight.

The need to maintain or increase this market share is exacerbated by the contraction the British coel industry, on whose back their process was established. This is forcing a painful shake-up by British

The past year in Britain has The withdrawal from mining

Contraction is forcing a shake-up by mining equipment makers

equipment of the Dowty engi-neering and electronics group, and the management buy-out of its mining division; and Closures and disposals by Anderson Strathclyde, the mar-ket leader in shearers, tunneling machines and other mining systems. Meanwhile, as other indus-

trial groups are bowing out of the sector, Dobson Park Industries, through its subsidiary Gullick Dobson, is widening its portfolio by absorbing compet-

Dobson, Dowty's chief rival in the powered-support market, has taken over Mining Suppiles International, of Doncas-ter. Five years ago it acquired Fletcher, Sutcliffe, Wild, of Wakefield

Mr Alan Kay, Dobson's chief executive, describes the worldwide market, especially in longwall, as "stable to rising, with a niche for us if we restructure in the UK, improve our position overseas and broaden our range."

His group's mining equip-ment subsidiary, Gullick Dob-

mining equipment makers, marked by takeovers, mergers, management buy-outs, closures and redundancies.

It also coincides with tougher competition not only from the Germans but also from the Americans, eager to supply the longwail machinery market.

son, has manufacturing facilities in the US, as does its recently bought-out rival Dowty, which also boasts a facility in Australia and fabrication agreements with Hungarian associate has even exported a roof support to New Zealand.

aland. Zealand.

However, both these companies face tough German competition in the roof-support market. A decade ago, Dowty and Gullick held a combined 60 percent of the US market. Now the Germans have helf of that market. The main German suppliars are Westfalla-Linenen, Kloeckner-Becorit and Hemsebeldt.

Eickhoff, a German company, is also the leading shearer manufacturer. As well as the new US market, it has also long been active in Britain and accounts for 15 per cent of the shearers in British mines. Anderson Strathclyde and British Jeffery Diamond (BJD), its UK counterparts, have failed to achieve a similar penetration of the German mining market. Meanwhile, the American

anufacturers are also fight ing back. Joy Technologies, the leading US supplier of continuous mining machines for room-and pillar work, is now also building shearers for longwall mines as well.

Its machines are all-electric, rather than the more common electric hydraulic models whose hydraulic fluids can be affected by dust. British Coal has installed its

first Joy shearer at Manton col-liery, and may fit another at Hems Heath. It will compare them carefully with all-electric shearers ordered from Ander-son and Eickhoff.

conveyor signalling systems to

based equipment for surface

monitoring and control of underground conveyors, fans, pumps and bunkers. It most

which monitors the mine envi-

ronment and also remotely

monitors and controls mine

special requirement, is under

taken by Victor Products

which manufactures a compre-hensive range of explosion-proof cable-connecting equip-

ment, control gear for fluores-cent and discharge lamps and micro-processor-based elec-

tronic control equipment.
In shortwall mining systems.

the main coal cutting is carried

which deposit the coal on to

mobile conveyors for transport-ing out of the mine,

terfield, the British subsidiary

of Joy Technologies, one of the world's largest manufacturers

of underground mining

Joy Manufacturing of Ches

Coal-face lighting, another

Maurice Samuelson

ehensive micro-processor

#### **QUALITY**

# Cutting out the dirt

COAL 13 today produced in a buyer's market, and consider-able efforts are made to provide the customer with the fuel

he requires.

Although mining of coal takes place within the seam, it invariably collects some extraneous matter such as stone or shale. Early colliery companies, operating in a highly competitive market, sough every means at their disposal to produce as clean a product as possible. Mining was hy large lumps as possible, and the first screening took place as the miner loaded only coal by means of a fork into small ubs bearing his marking, so that if any stone was discovered it could be deducted from

his wages. A modern shearer eliminates large lumps as the picks on its revolving drum churn up the seam into little pieces. The coal is mainly for the power station market, which is not only geared up to take the smaller product but can accept some stone, which becomes known as the ash content and acts as a damper on fire-bars which might otherwise require

replacement if pure coal was However, there is a limit to the amount of dirt a power sta-tion can accept. It is necessary to screen the coal and in most cases pass it through a wash-ery. Large coal presents no problem, as this can be easily screened out, but the smaller product, generally referred to as fines, are more difficult to Dense Medium Separator (Lar-

Over the years, numerous best washing features and is methods have been tried, to designed to separate raw coal separate coal from stone using in the size range 100-0.5mm. the different weights of the two products, centrifugal force, especially when dealing with

raw coal but with more flexibil-100-0.5mm separation is ity and efficiency.
Obtained by figs. The Baum fig can treat the complete size range in one process. But it is less efficient than a process employing dense medium separative for the lower civil engineering costs.

Stone once meant a deduction from a miner's wages

that it can only separate at rel-ative densities higher than 1.5 and for raw coals sized less than 10mm the lowest cutpoint possible is normally 1.7. Today's markets require a separation to be made at much

oping coal washing proc

World Record-

small particles.
In the common size range

smaller sizes. The Baum jig has an added disadvantage in

Because any processing of coal after mining increases its cost, coal preparation engineers at British Coal's headquarters technical department at Bretby have spent a great deal of time and energy develparticularly for the size range 100-0.5mm

British Coal's Lage Coal

West Germany takes the form of what has become known as longwalling.
Longwalls consist of a coal-

face around 200 metres long

When it can cost up to 17m to equip a face with hrand new

equipment, it is less expensive

- and quicker - to salvage perfectly good, if used, machin-ery from a worked-ont-face: FSV versatility and strength won the argument against all

Gullick Dobson, now owned y Dobson Park Industries, is,

in fact, a relative newcomer to FSVs. Its involvement arose

through its aim of developing from the firm's original roof support business. At least 100 FSVa have now been sold to British Coal since 1980, of

which 14 are at work in the Selby complex in North York-shire. The very latest, a 123kw

diesel-powered MP150 vehicle.

has been delivered to White-moor Colliery, where it will lift

Mine shafts, through which all equipment has to travel,

impose their own constraints on FSVs, Very often, machin-ery has to be assembled after

modular assemblies have been

lowered into the mine. Ease of assembly in these circum-

stances is one aspect high-lighted by the UK subsidiary of the Pittshurgh company Joy

Technologies (fully bolted con-

struction is offered for vehicles which need to be transported

Joy Manufacturing Co (UK)

through difficult conditions).

loads up to 16 tonnes.

the other methods.

the boundary.

Both systems are ideally suited to workings under open country, where surface considdence. Where underground mines are shallower, as in the narrower webs of coal, say up to 50m, are extracted between

the pillars — a system known as short walling. The equipment on the longwall coal-face consists of coalwall coal-face consists of coal-getting machines, self-advanc-ing roof supports, armoured face conveyors (AFCs) and communication and signalling apparatus. The AFC, or Panzer, conveyor is a German inven-tion. Unlike its predecessors, it was made strong enough to bear the weight of the coal-get-ting machine riding along its

DEEP MINING in Britain and

running between two roadways and advancing as the coal is extracted. A variation is the retreat system, where the two side roadways are driven to their fullest extent and coal is extracted on the "retreat" from

erations do not require pillars of coal to be left to allay subsi-US, pillars of coal have to be left to support the surface and

ting machine riding along its side, while disposing of the coal loaded on to it.

The coal is removed from the seam by a shearer which traverses the coaliace mounted on an AFC. It cuts the coal with a pick-laced revolving drum. Anderson Strathclyde manufactures a variety of shearers foremost of which is the AM500 and the all-electric multi-motor

Electra 550.

British Jeffrey Diamond, part of Dresser Industries competes with its 170KW Maximatic shearer, the 300/375KW Supermatic and 300/375KW ACE. Other major manufactur-ers include Mining Supplies of Doncaster and Eickhoff of

Moving on to self-advancing



Olierton colliery, Nottinghamishire: typical of the new generation of heavy-duty conl-faces

#### Equipping the coal-face

# Ways round pillars

roof supports the main suppli-ers in the UK are Dowty Min-ing Equipment and Gullick Dobson. Dowty supply sup-ports for a number of seam thicknesses capable of bearing pressures of upto 1000 tonnes. Dowty over the years has developed electronically controlled supports to operate on steep seam gradients and other irregular conditions.

Gullick manufactures hydraulic roof supports for all seam thicknesses and conditions. They come in two, three, four and six leg variations. Manufacturers of similar types of equipment in West Germany are Hemscheidt and Westfalia

For such powerful machines to operate in a gaseous and potentially dangerous atmosphere the electrical supply from the surface to the coal-face has to be absointely

An alternative method of roofing

spark-proof. Specialist cable and switchgear companies have therefore emerged to provide to provide the nece equipment. One of the largest UK manufacturers of high voltage switchgear for transmis-sion and distribution is GEC Switchgear of Trafford Park, Manchester. It supplied the first air-break 3.3KV flame-proof switchgear some 26 years ago and recently the world's first flameproof switchgear with vacuum circuit breakers

Brush Transformers, part of the Hawker Siddeley Group, which has been manufacturing transformers for over 100 years, produces units for flame-proof mining equipment.

powerful machinery on the coalface, totalling on average some £5m per face, communi-cation and signalling must be

and DAC of Burton-on-Trent. range from relatively simple

With the vast amount of

most suppliers of pre-start warning devices is a company founded in 1779, Davis Derby. Others in the field include Communication & Control Engineering of Nottingham

machinery, is principally con-cerned with the manufacture of UK-designed equipment and Products from Davis Derby

its adaption to meet British requirements.
Roof support in this type of mining generally consists of roof-bolting the laminated strata above the seam which leaves the roadways clear for shuttle-car operations.

Keith Whitworth



Now running successfully in a growing number of British collieries. WHEWAY BECKER LIMITED

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In the United States, this Joy machine has topped 10,000 tons in a single shift in Utah and produced a third of a million tons in 22 days in Maryland.

Now built in Britain for British mining Now, built in Britain, the first of these 660hp machines is about to cut British coal - and promises equally spectacular

Breaking

JOY 3LS longwall shearer

JOY MANUFACTURING COMPANY (U.K.) LIMITED BURLINGTON HOUSE, CHESTERFIELD \$40 15B. TEL 0246 237204.

**Bolts can save costs** A FIRST-TIME British visitor to a US or Australian deep mine will notice a striking dif-ference from the traditional underground British mine. tried out for limited applica-tions in nearly all British col-lieries in the course of salvage and Australian industries The Americans and Austra-hans, with their big reserves,

In the Britain the roofways are likely to be supported by heavy metal arches, girders and other metal or timber structures, through which the overhanging rock is rarely visible.

In the US and Australia, these supports are notable by their absence. Instead, the roof is riddled with large bolts, which prevent it from flaking off and collapsing on to the

The bolts, up to 2 metres long, are secured like dowels, with powerful, adhesive resins, which glue together the over-

Their popularity in the US and Australia reflects the dif-ference in their geology and mining conditions, compared with those of Britain. Having exhausted most of their shallow coal seams, the British are mining at much greater depths, with far greater roof stresses, than the younger US can afford to mine only one seam in a coalfield, while much of the mining in Britain takes place in ground dis-turbed by earlier mining activ-

It has also been regarded with deep suspicion by British minere since an ill-starred attempt to introduce it here in the 1950s. However, enthusi-asts say that the technology has since been totally trans-formed and that it enhances safety rather than impairs it.

It also promises big savings.
For example, in 1986-7, British
Coal spent £127m on steel for
use in supporting underground roadways and more than £100m on manshifts to repair existing roadways.

It says that a small cut in these costs means a significant saving, and that with less heavy steel to handle and

transport there should also be fewer accidents. As a result, it is now being gradually introduced again and in the past four years has been

work and the development of roadways. No roads are yet supported only by bolts but there are now

many where they reinforce conventional systems and it may be only a matter of time before they are used as primary supports. Some of the best results have

been achieved at Wistow col-liery, part of the Selby com-plex, where Mr Etic Wilhy, the manager, has called roofbolting "a godsend". Although US, Belgian and French expertise is being stud-ied, it is the Australians who have made the biggest impact here. An Australian system,

the Wombat, is being manufac-tured here under licence, and British efforts are being assisted by Dr Winton Gale, of the Australian Coal Industry acclaimed "guru" of roofboit-

#### **MODERN COAL MINING 5**

OPENCAST mining is as much to do with shifting large volumes of earth as extracting the coal beneath it. Its profitability depends on

tha ratio of the overburden moved for each tonne of coal The thinner the overburden, the greater the profit on coal

If the coal is too deep to remove from the surface the mining company will prefer to develop an underground mine. In the UK, where most of the shallow-coal reserves were worked out centuries ago, only about 15 per cent of coal is worked by opencast methods.

In Anstralia, with its younger coal industry, a much higher proportion is produced by consecution is produced. by opencast, or opencut, methods. However, even in Queen-sland, with the highest propor-tion of opencast, that exhaustion of shellower seems, coupled with the technological advances in deep mining, could soon start to tilt the balance in favour of underground mines.

For the opencast operator, the other variable factors include the quality of the coal, the distance of the coalfield from the market, and the envi-ronmental standards which have to be met.

However, these still leave wide margins for judgment and efficiency on the part of the operator, in assessing his reserves, and the general run-ning and equipping of the

Similarities to an under-ground mine are likely to be restricted to its arrangements for screening, washing, stocking and transporting the coal after it has been mined.

Otherwise, an opencast mine is essentially a large-scale managing site with beauty

quarrying site, with heavy vehicles continually at work moving earth and coal, and the regular use of explosives to break up the ground and loosen the coal.

On most sites, the biggest

Matro !

1777 12 12

The Part of the Pa

niece of machinery is the dragline, consisting of a huge toothed shovel, controlled from a trackmounted cab as hig as an officeblock. Working up and down the coel seam, its job is to transfer the overburden that hes on top of new coal to the void where coal has already been removed.

Where the overburden is soft and consistent, this job may be carried out more rapidly by a bucket-wheel excavator, which continually gnaws away at the earth and rock.

Meanwhile, the coal itself is

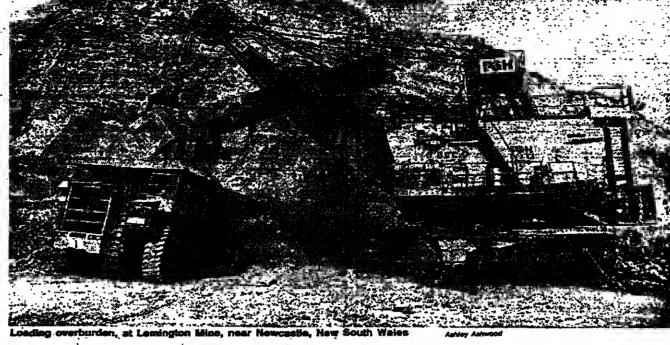
handled by a series of other machines – scrapers and bull-dozers to clean away the remaining earth, and mechanised shovels, front-end loaders and trucks to move the coal.
On many sites, the coal goes
by conveyor belt to the preparation plant and thence to a rail loading-point. At one Australian mine, a mobile crushing unit, screens the coal as soon as it has been removed from the seam.

If the mine contains lignite, or brown coal, rather than bituminous black coal, it will probably send it directly by conveyor belt to a nearby power station built to burn the

entire production.

The higgest growth in opencast coal mining has occurred
in Queensland, which produces about half the 140m tonnes of coal a year produced in Austra-lia, the world's leading coal exporter. Between 1974 and 1987, while Queensland's deep mined output hovered at about 5m tonnes a year, its opencas rose from 21m tonnes a year to 80m. townes.

Most of the state's 26 opencast sites are along the Bowen Bash, one of the world's richest coal deposits. Developed in response to the oil scarcities of the 1970s, it includes the eight big mines managed by BHP-U-tah Minerals International,



Opencast: Maurice Samuelson on the technique in Australia

# The quest for efficiency

which have a combined output of more than 33m tonnes a

Despite their superficial sim-liarities, the Queensland opencast mines vary considerably in the quality of their coal seams, the way they extract them, and their levels of investment and technology.

By BHP standards, the Nor-wich Park mine is marginal, producing 4.5m tonnes a year for export to the Far East and Europe. Because of the dis-tance from the coast, it is saddled with rail freight rates per tonne equal to those of its own production costs. And that is without the additional cost of shipping it abroad as far as

in the absence of a high-technology coal preparation plant, like that installed elsewhere, Norwich Park has benefited from simpler innovations such as advances in the use of explo-

Like mining industries the world over, Norwich Park uses mixtures of ammonium nifrate and oil to blast the overburden before bringing in the drag-lines or the trucks and shovels. Each new area to be blasted is first drilled with up to 300 holes, 45 metres deep and inclined at 20 degrees. Each hole is filled with a 94 per cent mixture of ammonium nitrate and 6 per cent fuel oil, into which electrically-fired high-explosive detonators are

Until about five years ago, this was a highly labour-intensive operation. The materials supplied by Imperial Chemical Industries, came in 40-kilo bags which a team of 12 men poured into the boreholes, together with the oil. Today, the chemi-cal ingredients are conveyed to the site in a train of vehicles Which are coupled up to mix them before antomatically fill-

Mr John Thompson, the Norwich Park manager, says this has enabled him to cut his explosives team by haif, and that the mine would now be losing money if it were still using the methods of the early 1980s. The present system is familiar to other forms of mining; but, says Mr Thomps

operations.

being prepared, but there is no guarantee of success.

Another, more picturesque, example of the pitfalls of open-

cast mining followed British

Coal's proposal to clear the Cutacre coal tip, in Lancashire,

said to be the biggest eyesore of its kind in Europe.
The first mining plan there was turned down, on the

grounds that it was too close to

human habitation and that it would have destroyed the

hreeding ponds of a rare amphibian, the great crested

revised to accommodate the interests of all local inhabit-

ants - human and otherwise.

The plan is currently being

is relatively new in Australia's opencast coal sector. The main innovations in earth-moving equipment relate to the steady increase in size and the use of computers to control and supervise their

In the last two or three years, meters have been fitted to the drag-line and activities of shoveis, and the amount of material they move. The main limitation on this computerisation appears to be

the difficulty in sifting and analysing all the information it provides. Technological developments elso focus on removing all the coal in a mine, with the mini-

mum of dirt. Where the mining

apply vehicles capable of lift-

ing 300 tonnes. But for the time

being, 240-tonners appear to be the limit because of the diffi-

culty of making tyres strong enough to to withstand such

With heavy-duty tyres on the

higgest six-wheel vehicles cost-ing up to \$50,000 each, there is

no point in fitting them with

tyres that do not last the

The present aim is to keep them going at least 5,000 bours, about 18 months. Apart from the environmental need to con-

trol dust, that is why mine

operators have to keep their internal roads as amooth and

the use of its equipment, in Australia, this becomes more urgent as the shallower seams begin to be worked out

and more overburden has to be displaced. In the Bowen Basin mines, draglines with 47cu m

buckets are used to remove 40m of overburden. But most

mines are now preparing to go

down to 90m before deciding to extract the coal by under-ground mining methods.

To reach these depths they

have to carry out a pre-strip-

ping phase, using trucks and shovels, which tends to be

more expensive per cubic metre than the use of the drag-line for the remaining overbur-

den. Computers are therefore being installed to optimise the use of this costly machinery by

monitoring their movements.

Front-end loaders, the worktakes place at night, this requires better visibility for horses of the opencast industry, are now armed with 17cu he driver of the front-end ets, compared with only loader, especially if he is 10cu m only four years ago.

Manufacturers are ready to removing coal from a narrow

the use of continuous-mining machines, which are driven over the coal seam and tear it up like a lawn-mower cutting grass. One of these machines manufactured by Wirtgen of West Germany, has been installed in Western Australia. Several US machines have

The usual method of moving the coal off the face is by front-end loader and haulage truck. In Australia, a majorexception is at the highly profit able Ulan Mine, New South Wales, owned by a consortium of Mitsubishi, Exxon and loca-

been deployed by the US coal

internal roads as amooth and clean as possible.

Dr. Geoffrey Oldroyd, tha British-born coal planning manager of MIM, the Queensland mining house, and an expert on opencast technology, says the industry is also seeking better results by optimising the use of its conjument. Australian interests. The Ulan minc's opencast coal (it also has an underground section) is dug by a large shovel and put straight into a mobile crusher, which feeds into a series of belts that can be extended or re-positioned as the shovel switches around.

According to Dr Oldroyd, a similar method is also being considered instead of the costly use of trucks for shifting over

The need for quality-control is evident at MIM's Newlands mine, towards the northern end of the Bowen Basin, which produces 4.75m tonnes a year om a 7m-thick seam.

The mine boasts a 2km-long preparation plant, based on the Looking like a stretched ver-sion of Blackpool's Big Dipper, the computer-controlled instal-lation consists of a series of conveyors and jigs which screen the coal to the required sizes, eliminate ash, and finally load it on to trains.

"It takes only 25 minutes for the coal to be mined, screened and loaded on the train," says Newlands manager, Mr Mike Dixon (like Dr Oldroyd, he preand loaded on the train, viously worked for British

These, and other, develop ments represent the leading edge in opencast mining technology. As in underground mines, they are continuous attempts to reduce costs, increase output and overcome the obstacles of geology.

#### **ENVIRONMENT**

# New projects face stiffening scrutiny

subsidence, spoil-heaps, water pollution and general dereliction. -Rut never has it faced such strong environmental resistance as it does to day in advanced industrialised cour-

Any large-scale new mines, whether underground or opencast, have to undergo the most rightous structing unit, so gainpublic and political acceptance, : The must be as unohtrusive and

pleasing as possible. Environmental planning has therefore been raised to a fine ..... art, and has become an insens rable handmaid of mining engineering. It involves expertise in civil engineering, agriculture, local government, law. public relations, and more eso-teric subjects such as entomology, botany and zoology.

This is especially so in densely populated Britain, which relies heavily on coal for its energy needs, but where potential sites are rarely far from built-up areas or agricul-tural land. In bigger or more thinly populated countries, too, such as the US and Australia mining faces environmental restrictions, although there is probably a more relaxed attl-tude in newer produces such

as Colombia and Venezuela. History, as well as demogra-phy, lies behind British sensitivities. In the public mind, coal mining is associated with the early years of the indus-trial revolution, many of whose scars still disfigure the land-

The fears emerge most sharply when mining is pro-posed in areas where the coal industry has not trodden

major cities.
This was evident in the out-

cry in January at the start of a planning inquiry into British Coal's application to build a new super-pit at Hawkhurst Moor on the western outskirts of Coventry, Warwickshire.

Anticipating strong local togething Bullish Coal spent many months consulting residents' organisations on how to meet its own requirements nience to the district. It also of the wild life and plants round the proposed mine site. Its anvironmental proposals

Removing colliery waste from the district for tipping in a disused quarry; a country quarry

Constructing special road
links to keep heavy goods traftic off the local road network;

Building bunding, landscaping and trees to reduce noi Limiting the height of the headgear to that of the tower at the adjoining Massey Ferguson tractor factor;

Controlling dust by spraying stockyards, Covering coal lorries and spraying them before they eave the sits.

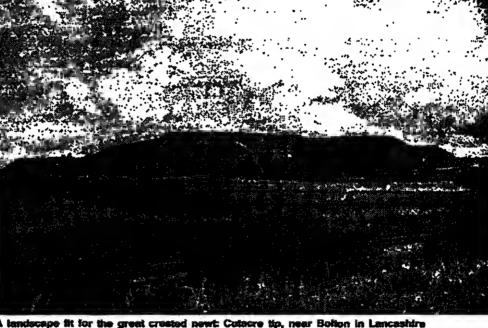
In making these efforts, the coal industry was deeply con-scious of what happened a few years ago over its plans for three new mines under Leices-tershire's rural Vale of Belvoir. In 1979, three years after the proposals had been announced, a public inquiry conditionally agreed that the pits could be built. But in 1982, Mr Michael Heseltine, then environment secretary, rejected two of the mines, and approved only one

 at Asfordby, which is now under construction. Opponents of the Warwick-shire mine fondly recall the Vale of Belvoir battle as proof that the coal industry can be stopped in its tracks, even if a local inquiry decides in its

British Coal, which is confident of winning the local argument, draws a different lesson from the Vale of Belvoir experience and its aftermath. It claims that some of its most vocal opponents in Leicesterwhire now agree they were wrong and that their fears have been confounded by the care with which the Astordby pit is being built. It therefore s this mine as a show-case of what can be achieved at Hawkhurst Moor.

It makes similar capital out of its stylish architecture in the Selby coalfield, in North Yorkshire, where it has blended buildings with the colour of the local villages and encased its winding towers, the traditional colliery landmarks, in more acceptable structures. However, the difficulties of

the underground mining indus-try are less formidable than those facing the opencast sector. In a deep mine, most of the environmental issues are set-tied when the project receives final permission. But at a new opencast site there also has to be progressive restoration during its productive life, as well



ndscape fit for the great created newt: Cutecre tip, near Bolton in Lancashim

In the US and Australia, mining companies deposit sizable financial bonds with the local state government, which they risk forfeiting if restora-tion work falls behind schedule or below standard. During the production period, there are strict conditions on levels of noise, dust, water pollution. and the system of transport.

and the system of transport.
Surface rehabilitation
embraces a wide range of ecological features - the depth of
restored top soil, the position
and quality of ponds and
streams, the plants and trees
to be planted, and conditions
for insects, birds and animals.
At the Dolet Hills lignite
mins, in Louisiana, the UKbased Costain Group, which
operates the site, was ordered operates the site, was ordered to restore trees that would pro-

In the public mind, coal mining is associated with the the industrial revolution, whose scars still disfigure the landscape

vide cover for deer. The state authorities had permitted it to replant the site with fast-growing conifers. But the federal anthorities intervened, and slower-growing deciduous

Restoration etandards appear somewhat less arduous in the remote opencast mines of central Queensland, where the poor land is suitable at best for low-grade grazing. It is usu-ally sufficient for the mining company to re-contour the site, and to plant grass on the It is in Britain that opencast

mining faces its toughest conditions. The opencast executive of British Coal produces about only 15m tonnes a year, com-pared with 85m tonnes from the less profitable deep mines. But it supports the deep mines to tha tune of £250m every With the average UK open-cast site in production for only

five years, a fifth of the opencast capacity needs to be replaced every year merely to maintain output levels. To do so, it has to overcome criticism of organisations like the Council for the Protection

of Rural England, whose senior the grounds that they would planner, Mr. Richard Bates. also have affected mature says opencast workings squancountryside and farmland. A der fine countryside and revised application is now

"make a misery of the lives of nearby, residents". The CPRE claims that, as a result of a "cosy" relationship with central government, the opencast industry is currently finding it easier to obtain plan-

But British Coal is far from satisfied with its success rate. Mr Ray Proctor, its opencast executive director, says that, of the 12 new sites needed this year in England and Wales, he has approval for only seven, and last year obtained permis-

aion for only 22 per cent of the new tomage applied for. British Coal's strongest argument is that, far from ruining the environment, its opencast workings often improve it out of all recognition.

Although the environmenta critics stress the damage to virgin countryside, many of the sites in which British Coal is interested are derelict land, scarred by the effects of shallow with the stress of the stress o low underground workings in

years gone by.
In the past 22 years, says Mr
Proctor, nearly 16,000 acres of dereliction have been cleared and restored to useful land for farming, housing industrial estates, shopping centres, recreation amenities, such as boating lakes and country parks. A scheme currently proposed in Sheffield, he says, would provide space for the city's first airport.

Some of his successes and frustrations are equally evident a few miles south of Ripley, in Derbyshire, where British Coal's contractors are extracting the last coal from the Ryefield site, overlooking the famous Denby pottery. Most of the site has already

been transformed into green farmland, including a sports ground. British Coal now wants to reclaim some 2.25m tonnes of coal which lie across the road in the Kirk site. This is an ugly black spoil heap left by the former Denby Hall colliery. Nothing grows on its soggy, dangerous hillsides, where rolls of barbed wire fail to keep out motor-cycle dirt

In extracting the coal, Brit-ish Coal would simultaneously eliminate the tip and use it as landfill in part of the Ryefield site over the road.

Two years ago, initial pro-posals were turned down, on

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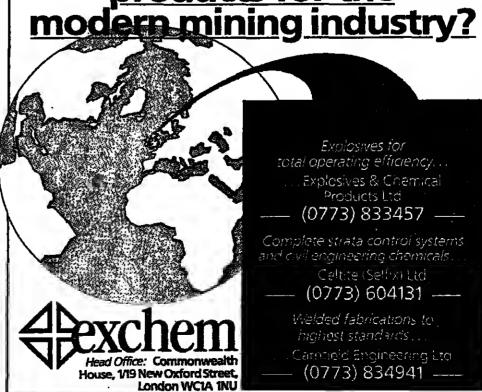
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#### **COMPANY NOTICES**

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NOTICE OF THE RESOLUTION OF THE BOARD OF DIRECTORS CONCERNING THE ISSUANCE OF NEW SHARES

Notice is hereby given that with respect to the lessance of new shares of C. Boh and Co., Ltd., pursuent to the resolution of the Board of Directors adopted on March 1, 1999 it has been resolved at the meeting of the Seard of Directors of C.Isoh and Co., held on March 13, 1999 that the terms of the public offering of

- ber of shares 100,000,000 shares of non-b
- to be leaved: per value common stock Amount of leave prior: Yen 982 per share Amount of the portion of the issue price which shall not be

Yen 491 per share
March 31, 1989 (Friday)
Public offering through underwriting by:
The Nilito Securities Co., Ltd.,
The Datwa Securities Co., Ltd.,
The Norman Securities Co., Ltd.,
Nippon Kangyo Kalumaru Securities Co., Ltd.,
Nippon Kangyo Kalumaru Securities Co., Ltd.,
Nordine Fleming Securities Ltd., Tokyo Branch
New Jepan Securities Co., Ltd.,
Morgan Starley Japon Ltd., Tokyo Branch
Dal-Ichi Securities Co., Ltd.,
SBCI Securities (Asia) Limited, Tokyo Branch
OS Capital Markets (Asia) Limited, Tokyo
Branch

Cosmo Securities Co., Ltd., 6. Date of commence

CITY OF BERGEN FLUX 500,000,000 7 1/2 % 1973/1991 On March 6, 1988, Bonds for the amount of FLUX 25,000,000 have be drawn in the presence of a Notary Public for redemption on April

The following Bonds will be redeemable coupon due April 10, 1990 and following attached:

30 to 48 incl. 270 1415 to 1440 inci.

177 to 200 incl. 968 to 966 incl. 3107 to 3256 incl.

rat cutstanding: FLUX 125,000,000

Bonds previously drawn and not yet presented for redemption : 002 to 004 Incl.

Lutembourg, Merch 20, 1989

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Riggs National Corporation COSED 1000.000.000 Floring Rate Subordinated Notes Due 1986

th accordance with the provisions of the noise notice in hereby given that for the period 28 Merch 1986 to 20 June 1988 the noise will carry a rate of interest of 10≥ per somes with a coupon amount of USEO 205.74.

Alggs National Corporation

#### **CONTRACTS & TENDERS**

#### TENDER NOTICE

BANGLADESH POWER DEVELOPMENT BOARD GREATER DHAKA POWER DISTRIBUTION PROJECT - PHASE III (REFERENCE NO. BA1A - 8/10328)

The Crown Agents, acting on behalf of the Bangladesh Power Development Board of the Government of Bangladesh, hereby invite Tenders for the under mentioned

1) Turnkey Contracts:-

Specification No. 57292/4 Turnkey Contract for 132kV and 11kV Substation Equipment including Civil Works. Specification No. 57292/16 Turnkey Contract for 33kV and 11kV Substation Equipment including Civil Works.

2) Supply Only Contracts:-

Specification No. 57292/10 Supply Only Contract for 11/ 0.4kV Distribution Substations and Power Factor correction Equipment Specification No. 57292/12 Supply Only Contract for 11kV oil impressed switches and fuse switches.

Which subject to the signature of an exchange of letters between the British and Bangladesh Governments, it is envisaged will be financed by the Overseas Development Administration of the British Government.

Potential bidders from U.K. Contractors, Suppliers and Manufacturers are advised that Tender Documents will be available from 10.00 am. local time on Tuesday 28.3.89 for collection from the office of:

> Crown Agents -St. Nicholas House Suttoo Surrey SM1 1EL

Each Tender Document, comprising of two or three volumes will cost £200 Sterling and cheques or Banker's drafts should be made payable to Ewbank Preces Limited clearly mentioning the Greater Dhaka Power Distribution Project-Phase III Tender No. 57292/.... This money will not be

The closing date for receipt of Tenders at Crown Agents office is 1 pm. local time on the dates against each of the documents as follows:

Specification No. 57292/4 ...... Fri 23rd June 1989 Specification No. 57292/10 Fri 26th May 1989
Specification No. 57292/12 Fri 26th May 1989
Specification No. 57292/16 Fri 22nd September 1989

no tender received after this will be considered.

Tender documents will be opened on the same day as the Tender Closing Date and all Tenderers submitting Teoders will be informed of their safe receipt.

Prospective Tenders are advised that any queries to the Tender Specification shall be addressed to:-

Ewhank Proces Limited Consulting Engineers Prudential House North Street

Phone: (0273) 724533 Telex: 878102 (EPL

Sussex BN1 1RZ

Brighton

Fax: (0273) 200483

Marked for the attention of the Project Director/Project Manager - Dhaka Phase III.

#### CONSTRUCTION

# £60m development in Woking

A contract worth some 550m has been awarded to TAYLOR WOODROW MANAGEMENT CONTRACTING by London & Edinburgh Trust for the construction of The Peacocks, a new shopping, arts and entertainment complex in Woking, which is being developed by LET in association with Woking Borough Council.

The 11 acre development, to be built by TWMC, will provide some 330,000 sq ft of retail space on three levels — incloding an Alders department store covering 139,000 sq ft — a 400

seat food court, plus a three-screen cinema, library, night-clob and a 1,300 seat theatre. Above the retail area will be parking for 1,800 cars.
At the heart of the scheme will be a glass atrium — one of

the largest in the country—which will provide the focal point for the whole complex. Work on site will start in the

beginning of 1992. Taylor Woodrow Construction (Northern) has been appointed consultant contrac-tor to Manchester Airport for phase 1 of the construction of Manchester Ringway Airport's second international terminal

second international terminal, this phase of the terminal, due to be in operation by March 1983, will increase the airport capacity by 6m passengers per year. The first phase of the project is designed to increase capacity by 12m passengers per year and will represent an investment of wellower 2500m during the next six over 2500m during the next six years. The initial phase of the airport's expension is valued at £234m. Work has started on

2 per cent of vouchers currently are for sums of more

than £10,000.

The consultation paper also proposes changes which would affect larger sub-contractors holding 714C certificates. These do not have to provide wouchers when receiving payments from contractors.

The Inland Revenue pro-poses that contractors using

sub-contractors with 714C cer tificates should inform the

Inland Revenue within a

month of the first payment being made. Currently infor-mation on payments made to

714C holders is provided annually. Comments on the prop-sals must be made to the Inland Revenue by May 31.

\*Sub-contractors scheme:

ents from contractors.

#### of Dublin McINERNEY CONTRACTING.

McINERNEY CONTRACTING, a subsidiary of McInerney Properties, has obtained work valued at over IR£36m (530.2m). The work covers five schemes in Ireland, four of which are located in the Greater Dublin area.

The first involves the contraction of office buildings The Inland Revenue says the effect on genuine transactions would be minimal as less than

struction of office buildings totalling 125,000 sq ft for Earls-fort Centre Developments at Earlsfort Terrace, Dublin 2. The scheme covers blocks D and E of the Earlsfort Centre development project and is val-ued at IRES.5m (17.1m). The building will be set within the plaza of the Earlsfort Centre and will face the Conrad International Hotel. It will include underground car parking with a capacity for 60 vehicles and computer flooring. Work has already begun on the scheme and is expected to be complete

within 18 months. McInerney Contracting has secured major extension works to the Ballymore Eustace water treatment plant for Dublin Corporation. The contract is valued at IR£10m (£8.4m). The extension work will double the capacity of the plant to cater for an additional 20m gallons per day. Construction work will involve building large sedimentation tanks, a water tower, substantial pipe-lines and valve complexes and other ancillary works. Work will commence after Easter and is expected to be com-pleted in two half years.

Further contract work valned at ERSm (£4.2m.) has been negotiated with the Custom House Docks Development Company for the construction of foundations for the North/ South blocks of the Financial Services Centre.

Work is expected to commence in April on the IRES.25m (£6.9m) University College Dublin student accommodation project. Planning has been sub-mitted for the project which will involve 595 student bed-

#### Reducing paperwork for contractors

the Inland Revenue.

had been made.

contract. More than 90 per cent of vouchers are issued for sums of less than £2000, says

It proposes that sub-contractors would not be permitted to

receive tax-exempt payments unless they had first presented a voucher. This would absolve

contractors from having to

chase sub-contractors to pro-

vide vouchers after payments

The new proposals would also hit at sub-contractors

The Inland Reveoue has reduce the number of vouchers announced a series of propos-returned during the life of a als aimed at reducing paper-work for contractors. They would also make it more difficult to commit large tax frauds, writes Andrew Taylor, Construction Correspondent.

The proposals affect vouchers (known as 715s) which many sub-contractors must present to contractors if pay-ments made to them are not to have tax deducted at source at

25 per cent. Contractors pass the vouch-ers to the Inland Revenue which checks its records to determine whether sub-con-tractors and contractors are paying the right tax. More than 6m vouchers were returned last year.

New rules, proposed in a consultation paper, would allow sub-contractors to aggregate payments instead of presenting a voucher for each pay-

This would significantly

which sell vouchers or increase the amount of pay-ments shown on vouchers which contractors use to offset against tax.
The Inland Revenue proposes to limit payments shown on each voucher to £10,000.

This means contractors conspiring to defraud the revenue would have to return a lot more vouchers to make the practice worthwhile.

Reducing Paper Work, Reference Library, Somerset House, London WC2R 1LB. £1

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# **Shopping project in Southampton**

The Southampton region of WIMPEY CONSTRUCTION has been awarded a £23m design-and-build contract by Heron Property Corporation for The Mariands, a shopping develop-ment in the centre of Southampton, opposite the Civic Centre, to be completed ready for trading in late 1990.

Shop units flank a central mall at two levels and the cen-tre will be linked to the city's main shopping streets. A new multi-storey car park, Gateway superstore, Skandia Life office development site and a Heron

Homes site will also form part of the development. Access will he by way of two entrances in Portland Terrace, and a third from above Bar Street. The mails will be lit naturally through roof glazing and open wells. The main concourse will incorporate two two-storey public squares, one of which will have an octagonal glazed roof. The other, to be known as Manchester Square, will fea-ture a two-storey atrium with Two wall-mounted scenic lifts, and a multi-pyramid glazed

roof. A reconstructed terrace

bricks retained from the original structure will front onto this square. A listed building in Ogle Road is to be inte-grated into the development, and will operate during con-struction

with the facade built with

The ground floor will house 31 shop units, 18 with basement storage. The first will have 22 units, 17 with rooflevel storage. The mails are served by six escalators providing a pedestrian link between each floor

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# Hogg on competition.

KENNETH FLEET TALKS TO SIR CHRISTOPHER HOGG, CHAIRMÁN AND CHIEF EXECUTIVE OF COURTAULDS ABOUT TRAINING, ENTERPRISE AND COMPETITION.

**FLEET:** With 1992 approaching fast, what are your feelings about the competition faced by British business today?

HOGG: The competition feels something like two or three times as great as it did when I started my industrial career in the 1960s. It's partly the effect of globalisation, the revolution in communications and transfer of technology; and partly it's the growing economic strength of the Far East, headed by Japan. They are absolutely formidable competitors because they get their total act together on a national basis and they have a set of attitudes, which you can call culture, which makes them very effective industrial fighting forces.

tant, but what you also want to happen is for people to co-operate with one another, to remain open minded, to remain motivated.



**FLEET:** How would you describe the management attitude to training at Courtaulds?

HOGG: Training is like motherhood: we are all in

ability and distinction from each side of the fence to get together and assume that they are all trying to do the same things and that those things are sensible; and then to discover a long way down the track that they simply have not rhought it through because they start from different viewpoints. I can't stress enough the value of co-operation, but all the time it must be on a practical, open minded, self-examining, talking-it-through basis.

FLEET: The Government clearly believes it is introducing a radical reform with the new Training and Enterprise Councils. What do you feel about that?

HOGG: I note the emphasis that the Government is putting on them in terms of resources, men and

what the priorities and the purposes are; because

it is very easy for a group of people of real

HOGG: I note the emphasis that the Government is putting on them in terms of resources, men and money. I note the general principles outlined in 'Employment for the 1990s' and I can only applaud those principles. But I find that the great variety of initiatives now around are confusing and I would hope that over a period of time the TECs will come to be seen as the principal area of focus for business/government co-operation in relation to employment. Most people find that a lot of bodies with long names and initials do become very confusing and they can't see how it all fits together.



It's all right for the tidy-minded civil servants who drafted it all, but it is quite another for those who have got to make it operate.

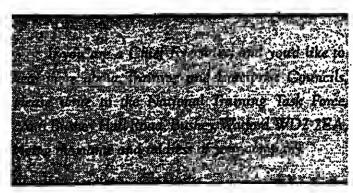
In 10 years' time I would like to see the TECs have the sort of well recognised stature in their areas which will lead to a whole lot of things falling automatically to them and being lead by them. We have in the TECs a theoretical mechanism which now everybody has to buckle down and make work.

Everything starts locally. Courtaulds is only manageable if you thrust power and autonomy to organise it as far down the organisation as you possibly can. The TECs' purposes are very much better handled and generated at local level where you can get a core of common perceptions and

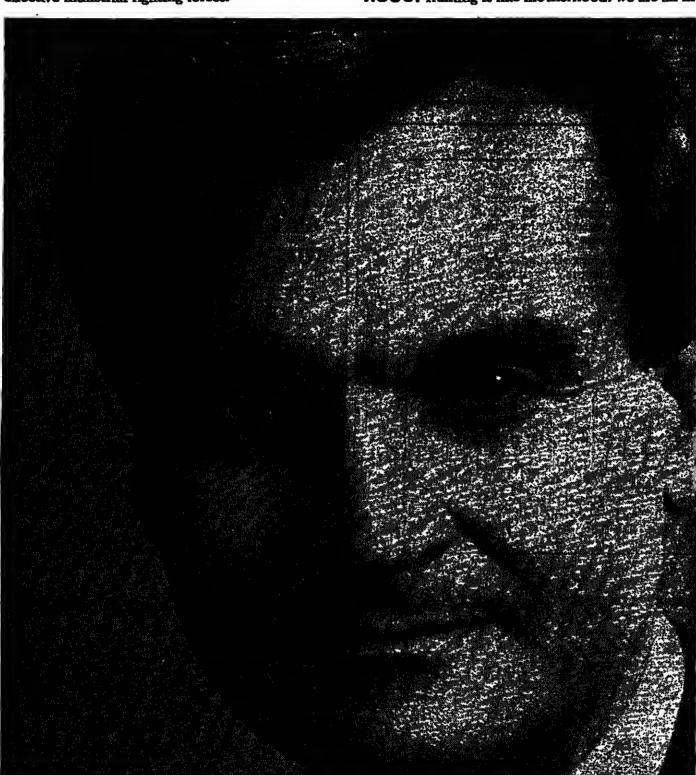


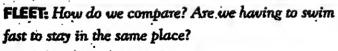
enthusiasms and relationships going. The minute you try to do too much nationally it all becomes remote and misunderstood and you lose the central vitality of the thing.

Training through life is not a deeply ingrained concept in the management of this country. It has to become so.



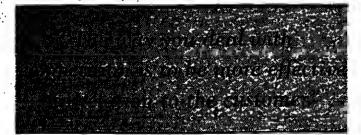






HOGG: Yes, we certainly are.

To my way of thinking, the only course of action for a western company which is locked in global competition is to learn the lessons which the Far East, Japan in particular, is teaching us.



The way you deal with competition is to be more effective in relation to the customer, who after all provides your sole source of existence. If you're really going to do that differently from what you've done in the past, and better, then you have no alternative but to examine every aspect, every facet, of the way in which you do things, and that of course means involving everybody in the company.

The kind of people we need now are above all flexible people. Training is desperately impor-

favour of it. The essential point about training is that it fits like a glove into the whole purpose of what the company is trying to do. It should be accompanied by the right set of attitudes, the inclination to work as a team, and so on. It should not be something painted on with a brush. You relax because you say 'I have given x or y three weeks training this year and that's fine.' For all you know x or y needs an unremitting 52 weeks of training and he should get it on the job.

**FLEET:** What are the criteria for successful cooperation between government and private industry in the area of training?

HOGG: The criteria for successful co-operation between government and private industry in certain areas raises fascinating issues. I have spent a great deal of my working life thinking of the differences between the public and private sectors, or rather, slowly becoming aware of how fundamental those differences are, and I don't think either side can begin to take it for granted that the other understands their viewpoint adequately.

A great deal has to be done to make sure that everyone understands the framework in which they are doing things; why they are doing them;



#### **LEGAL COLUMN**

# Concern that justice may be out of balance

TWO RECENT well publicised cases have shown the legal profession in a poor light.
In the first, two sisters face large costs despite winning a claim for damages after being wrongly accused of shoplifting.

In the second, a woman was sent to prison for a week - of which she served three days -after refusing to give evidence against a man accused of assault because, she claimed, she had been intimidated,

The cases may well have reinforced the widespread opin-ion that the pursuit of justice is fraught with difficulties for the ordinary man or woman in the street.

It is a view which the National Consumer Council (NCC) made public recently in its comprehensive trestise, Ordinary Justice, about what is wrong with the legal profession as we move into the 1990s. The treatise was largely writ-ten before Lord Mackay, the Lord Chancellor, outlined his controversial reforms in green papers published earlier this

However, its central and inescapable conclusion that, "many people are getting a raw deal from a legal system which fails to provide justice for all" is something that the profession will ignore at its peril, as it squabbles over Lord Mack-

The NCC says in its book: "We want a legal system that

is simple, quick, cheap and fair and which can be used by ordinary people to sort out ordi-nary problems." Fair enough, hut what happens when things

go wrong? Complaints about lawyers are always a difficult subject to deal with for a profession as closed as the legal world has

for long been.

The NCC points out: "There is no doubt that complaining about professional services raises more difficulties than complaining about most goods or services commonly bought in the high street."

After a number of false starts the Solicitors' Com-plaints Bureau was set up in September 1986 as part of the

THE BAR Council's £300,000 advertising campaign against the Government's grean papers for reforming the legal profession got off to an inter-

esting start last week, writes David Churchill.

Full page advertisements in national and regional newspapers suggested two themes. One carried the line: "309 years after a Bill of Rights, a Bill of Wrongs." It listed in

some detail just what the Bar

thought was wrong. The other theme showed the

nameplate of a solicitor's firm

Law Society but separate from It with a different identity, address and mansgement

In January 1987 it started a new complaints procedure, involving a predominantly lay investigation committee estab-lished to provide an indepen-dent element in the proceed-

At the same time, new statutory powers were introduced enabling the profession to investigate inadequate professional services or "shoddy work" as well as misconduct. They could also order solicitors to remit or pay fees to clients who had been given a poor services. who had been given a poor ser-

The advertisement explained the threat posed to the consumer in the Bar's opinion by the possible disappearance of high street solicitors if the

Government's proposals were to go through. Mr Desmond Fennell, chair-

man of the Bar, said: "We want to alert the public to the very real dangers which lie in

the green papers - dangers which will undoubtedly reduce

choice, increase costs and

make it more difficult to

doubt that the bureau faces a very difficult task. It has to reassure a highly sceptical public that it is taking a firm line on poor quality work as well as having to maintain the confidence of solicitors who

pay its bills and ultimately control its future." However, the NCC's clear concern is that the hureau has become bureaucratic with the majority of complaints simply fading away.

It says: "The public are unlikely to be reassured if

investigations are seen to be dragging on for years." The NGC believes that there is a need to examine the

ture, rather than tinker with

Advice."

He said he was confident that the messages sent ont would echo the public's concern about the quality of legal service in England and Wales. However, he added: "The public should not be taken in by the Government's idea that unrestrained market forces."

unrestrained market forces will cure the ills of our legal system. We should not aban-

don the good parts of our pres-ant system if we cannot

which definitely serves the

the existing mechanism in response to a particular prob-

lem.
"The existing structure is over-complex," it says. "People do not understand how their complaints will be processed and the majority of complaints fall between various commit-

Consequently, the NCC believes that unless the Law Society can improve the sys-tem to win the public's confidence, an independent legal council should be set up by the

Lord Chancellor.

Specifically, the NCC calls for a solicitors' complaints system that has: • The power to investigate

The Bar's advertising cam-paign is being co-ordinated by Saatchi & Saatchi, the adver-

tising agency. Mr Fennell said: "We have chosen to launch

our advertising now because

we have prepared the ground.

"More and more people outside the legal profession are becoming aware of the issues.

Our purpose is to convince

them that the Government's

proposal must be viewed criti-

cally. This is our first salvo in

a paced campaign over several

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The NCC also agrees with the recent Civil Justice Beview's recommendations that the profession should pro-vide written professional standards to be enforced through a complaints procedure.

Complaints against barristsrs can be investigated by tha Bar Council's conduct committee at present, with serious cases referred to an independent disciplinary tribu-

Although the Bar is considering changes to this proce-dure, the NCC points out that the complaints system will remain concerned with disci-plining barristers rather than providing consumers with

It says: "In the long term, public confidence would be increased if complaints against barristers were investigated by an independent body."

Ordinary Justice: a cons view of legal services and the courts in England and Wales; HMSO; £11.95.

Bar Council begins fight against reforms

with the title, "Long, Gone, & obtain independent Isgal

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#### **ARTS**

Roy Square by Ian Ritchie Architects deserves a closer look

#### **ARCHITECTURE**

# Dockland oasis of calm

are spare and repetitive and it is that which gives them their particular elegance. What passes for a street in the new Kloadike in Docklands is nothing of the sort. Out there, the houses crowd the canals and dock basins, architec-turally indecisive about whether to make an impression or to keep their heads down behind security gates. grills and other devices.

A new housing development on

Narrow Street deserves a closer look. For once, the architecture is clear and precise in its objectives, intelligently receptive to its location and well thought-out throughout. Roy Square, designed by Ian Ritchie Architects, a small, young practice with a local office, starts with an advantage; unlike most Docklands sites, this is an existing street with a small pocket of early 18th Century houses.

Ian Ritchie and Gordon Talbot, job architects at Roy Square, know Docklands backwards. Their involvement in opposing the Siefert proposals for Limehonae Basin sufficiently impressed both the London Docklands Development Corporation and Tower receptive to its location and well

Development Corporation and Tower Hamlets that they recommended the practice to Roy Sandu, the Indian businessman who was developing an unprepossessing industrial site for

Roy Square is first of all ramark-able for the simple clarity of its ideas, taken through to realisation. There is a straightforward street façade, classical in derivation, with a ground floor in which the fenestration serves as a rusticated base and the roof-terraces of the upper-level maisonettes give a cornice line. After that, the classicism is merely a guideline to proportions — as it was always meant to be. These are not contrived classical revival buildings.

The vitality of the square is within, but, unlike almost every other Docklands housing scheme, this is not a secret precinct of garaging and super-defensible space, but a calm garden visible through the glazed entrance. The approach is up steps, because the garden is raised above the basement

Inside the square, the overall impression is of exceptional lightness. The garden is set around a formal finger of moving water, spilling over and eventually trickling down beside the entrance steps. It could well be in Marrakesh or southern Spain. Clumps of bamboos whisper and flutter in the smallest breeze. An unusual garden, its delicacy is echoed in the translucence of the exteriors of the houses, which have tall conservatories lighting the living-rooms of ground and first-floor flats. Privacy is provided and giare avoided by opaque glass panels alternating with clear

Materials contribute to this impression of translucence. The tones of pale gravel and neutral materials for the hard landscaping are picked up by a pale buss brick with a pinkish tone. Detailing is simple and consistent. with metal window-frames which fol-low a grid whether for the smaller windows or the conservatories. The iron-work of the balconies and terraces, important elements within the

faces, important elements within the design, follows suit.

Four storeys high, the top floor is stepped back to give a solid and generous terrace for the maisonettes. The conventional plan is inverted, with bedrooms below, offering an enormous open plan kitchen/living area benefiting from its rooftop position, light and airy.

The fact that this development is so

remarkable in Docklands is, in itself lamentable. If the city in question

were Berlin or Bologua, such unclut-tered and effective srchitectural design would be the norm. That is not to damn the architects with faint praise, but merely to emphasise that their work is consistent with much architectural thought widely accepted outside these shores. Developers in Docklands have responded to the challenge of an architectural free sone with warehouse look-alikes or screaming yellow stock brick

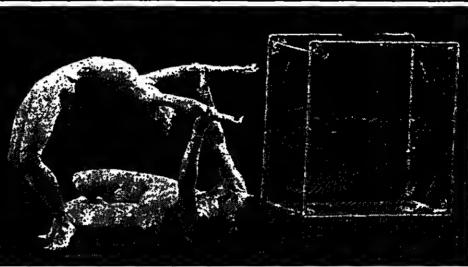
Ian Ritchie used to work with Norman Foster and is well thought of within his own profession. Yet, were it not for the unlikely patronage of the LDDC and the local authority, they would surely not have been chosen to develop this tricky site. In other hands it might quite easily have become a pestiche Georgian terrace, which might not frighten the horses but would have been yet another architectural copout.

Roy Square, slotted neatly into Narrow Street, supplies what is desperately lacking in Docklands, a sense of urbanlty. You only have to look across the street line is lost and the housing pushed back to allow for Ian Ritchie used to work with Nor-

housing pushed back to allow for parking spaces and security. The end result offers neither privacy nor the public pleasures of a street

Reeling from the architectural Spanish omelette that Docklands has become, one mourns the plan that never was, the guiding hand which helps cities as different as Milton Keynes and Berlin to face up to them. selves. London's Docklands are, and it cannot be said too often, the missed architectural opportunity of the cen-

#### Gillian Darley



Stage decoration was provided by Jasper Johns for "Walkaround Time"

# Merce Cunningham

LEICESTER EVENTS

- 10 m

ETY ADMISSION

H 157H 1969

Once, on tour in Spain in 1918, the Diaghilev company was obliged to perform "Scheherazade" with costumes and scenery from other ballets — and, said Lydia Sokolova, "It was the best performance we ever gave." Once, on tour in Enrope in 1964, Merce Cunningham his on something similar: to present anthologies of dances from individual repertory items, in costumes Once, on tour in Spain in 1918, repertory items, in costumes and scenery culled from a variety of works. The result, to which he gave the very 60s title of Events, later became his most usual way of presenting his dances in public, as seen in Edinburgh in 1979 and in Liverpool in 1980. Recently, they've become rarer. The Cunningham company has visited Sadler's Wells four times in the 30s—a fifth visit is due in November. fifth visit is due in November - but in programmes of of a plane score. And each sole separate repertory works. The was itself diverse. Finlayson's four performances of "Leicester Events" were

therefore the greatest coup of the city's international dance festival. Some fact, Each Event (I caught three) was given in different costumes one set by William Anastasi, one by Mark Lancaster, and one, yes, by the company's musical adviser, John Cage. The stage was decorated for the first pair of performances by the transparent rectangular fransparent rectangular objects of Jasper John's decor for "Walkaround Time" (after Marcel Duchamp's "The Large Glass"), for the latter two by the floating silver pillows designed by Andy Warhol for "RainForest." (These two decors are part of scenic history). The music, though occurring within specific parameters and drawing from much pre-set material, was new for each performance. It is

Cunningham's wont today to select Events' choreography from works not in current repertory, and he assembled two separate selections from some ten works, one for Thursday and Friday, one for two Saturday performances. How can so wide a range of

How can so wide a range of material cohere? And so wide a range of rhythm? Partly because diversity is already characteristic of any one dance. In a duet, or double solo, occurring early on in the Saturday Event, Victoria Finlayson on one side moved, oh so slowly and with such rapt absorption, in adaglo movement, while Kimberley Bartosik moved briskly on the other side. One paid to beed to other side. One paid no heed to the other, and yet their two rhythms complemented each other like left and right hand adegio motions here included alow shoulder-rolls, her alow shoulder-rolls, her fingertips resting lightly on her shoulders, while gradually wheeling one leg, then the other, around in "grand round de jambe," this way, then that. Upper body working in rhythms and patterns quite unitke lower body; and yet somehow the two coalescing. Lucidity, precision, line, control: these were always in evidence.

evidence. Chances are you also follow a Cunningham dance for associations, for threads of character, atmosphere, even story; and this pays dividends. Cunningham's works have long been among the most remarkable dramas now before the public. Pm reminded of his constantly shifting range of language, tone and pace when I see performances of "The Three Sisters" or "The Cherry Orchard"; I thought of him

during the Huston film, James during the Huston film, James Joyce's "The Dead." You see people occupied in their own private lives, but also as members of a community. When people address each other, make connection, play, interrupt, eupport or manoeuvre each other – these things say what they say, and I never watch Cunningham never watch Cunningham choreography without emotion. Events are the most fluid Cunningham dramas of all.

Conningnam dramas or and Nothing happens, everything happens, lives proceed.

The strange poetic connectedness of each Event would not matter – and would not work – were it not that each was richly studied with dance information of the highest order. High-lights...Dennis O'Connor pouncing through a marvellously bright series of various turning jumps; Kristy Santimyer unfolding her endlessly plush line through long phrases of turns, sittudes, ecartes and jumps; stretching in a eldeways crescent are from foot to raised hand, and then anddenly beating a raised foot to and fro in retire; David Kulick arching into bridge-shapes on the floor; Carol Teitelbaum twisting pelvis, back and shoulders to this side and that while poised up on half-toe.

Finlayson's duets with Kulick, Santimyer's with O'Connor: these encounters each told their own story. All this with Warhol's wonderful silver pillows rippling against a black surround, or John's translucent objects in an amber light . . . luminous and historic imagery in abund-

Alastair Macaulay

# The Pogues

Trying to satisfy the high spirited, largely London-Irish crowd who have come along for a St Patrick's Day fix is not a task that lends itself to musi-cal virtuosity or subtlety. Given The Pogues' reputation for rabble rousing, the combi-nation threatened mayhem. Yet their performance at the Brixton Academy, while occa-sionally drifting off into the sionally drifting off into the kind of out of key singsong at home round a drink-sodden bar, had moments of mandlin beauty and gleeful abandon. Sure enough, showers of beer rained down, jigs were danced regardless of the bodies in the way, and harp and shannock decorations and tricolours bobbed around. Yet rather than exploit this, The Pogues opened with a restrained "The opened with a restrained "The Band Played Waltzing Matilda." The central figure

was as ever the newly bearded singer Shane McGowan, whose teeth resemble brown sugar crystals. Possibly a role model for the audience, he, like many of them, had a pronounced slur. It is clear his infatuation with the Brendan Behan school of self-destruction is deep-rooted rather than roman-tic. But McGowan can rise

tic. But McGowan can rise above the slob in him.

He could be the proud rebel, stirring patriotic emotions on "The Broad Majestic Shannon." There were also some predictable reels, and pandering to the crowd, for instance saying: "This one's for King Hilly." "Fairytale of New York" proved that he is a gifted someproved that he is a gifted song-writer. He performed it evoking, like so many of his songs, the romanticism and yearning of the extled Irish spirit. He likes to poke fun at other musi-

cal forms The Pogues embrace, Celtic folk laced heavily with pop and post-punk form the foundations. On "Yeah, Yeah, Yeah, Yeah," McGowan did a hilarious satire on early white rhythm and blues in the Mick

rhythm and bines in the Mick Jagger school.

While this gargoyle's anar-chic personality is central to the band, his foil is Philip Chevron, who stands poised strumming his blue guitar. He was emotive and captivating on "Thousands Are Sailing."
The group's other mainstay guitarist, Terry Woods, opened for Shane on "Streets of Sorrow/Birmingham Six," a song now notorious for being ban-ned by the BBC. This, the fifth Pogues' St Patrick's Day excursion, was not for the faint-hearted.

Spencer Bright

March 17-23

# Eartha Kitt

SHAFTESBURY THEATRE

The rasping purr comes out of the darkness before the cande-labra, including the elaborate EK monogram that Liberace might have envied, bave revealed its source; a figure gowned in a slit metallic gleam with turban to match. The face is square-jawed, the cheek-bones prominent. The bulging curve of the forehead dominates the profile; the eyes can burn with a cultry anger that belies the teasing vocalisation. Here is a cat playing with her prey. "I wanna be evil," she hisses, "I wanna be cruel." For a moment she is all concen trated, baleful intensity, Tamora, Queen of the Goths (any RSC casting director in the house?).

The discipline of Earths Kitt's dance training is appar-ent. The essence of her act is control, whether standing stock still in quizzical defiance, snapping out a musical phrase and waiting for the band to catch up, or bolding a note with a vibrato-less voice rock steady in the belted climaxes. as true and unwavering as n steel girder. She can hold a consonant, not merely those feline rolling Rs but lascivious Ls. "Think of euicide?" she sings in the dry mockery of Sondheim's "Leave You?" from

Follies; "Shall we dannin - ce?" the final sibilant is insolently tossed off, a vocal shrug of

indifference.
For two hours she gives generously, sometimes accompanied by four male dancers (whom she evidently could—and probably does—teach a thing or two). The programme is selected from a list; on Saturday she disappointed only by omitting Coward's "Mad About the Boy," which should be perfect for that vocal schizophrenia—breathy littlegiri innonia - breathy little-girl inno-cence and baritonal tigerish insatiability – but made amends with the unannounced "Love for Sale." Her rendering of the Brecht/Weill "Surabaya Johnny," oddly inserting a hard J as in "Surabaja," was hard J as in "Surabaja," was free, the verse spoken as much as sung, but superbly smoky in the refrain. She bounces through "My Discarded Men" (written with Bronski Beat), and her big routine with the dancers to two blues numbers (Ellington and Handy) is (Ellington and Handy) is unsparingly energetic and beautifully encapsulates Kitt's shility to send up herself - or

her image.

Nica Burns' direction gets things just right. Such big numbers are not overdone but rely on a witty, intimate cheer Martin Hoyle



Eartha Kitt

fulness that lead to the next musical button-holing confidence from the star with no sense of anticlimax. "C'est si bon" and the Turkish "Uska Dara" prompted anecdotal rec-ollection, of forgetful adlibbing in the former and RCA's release of the latter in the hope that its failure would prove

Kitt was no singer. Speech is minimal and effective, free of gush or showbiz nonsense. "The Day that the Circus Left Town" is less hauntingly wistful than it once was, now briskly put over as mature reflection not over-anxious to brood over innocence lost long ago. "An Old-Fash-ioned Girl," opening the second half with the singer, now with hair up and in purple even more split, reclining on a bed suspended above the stage, is still brisker, with the Kitt's final confidential laughter implying surprise that it still exerts a spell.

The nine-strong band is excellent, the dancers vigorous and, spart from some coarse byplay with the mike from one of them, as lightly self-mocking as the star at her best. For a as the star at her best. For a star she is, Predictably she ends with the song that stopped and stole the show each night at the recent run of Folice, "I'm Still Here," and elevates it into something more than a list of cliches, Eartha Kitt is magnificent. She is also priginal and such artis, her original and authentic, ber own woman, a one-off; to use a word devalued by show-busi-ness hype, she is unique.

# Giovanna d'Arco

Verdi's seventh opera makes a superb vehicle for a star soprano. Giovanna d'Arco was first performed in 1845 with Erminia Frezzolini in the title-role and later revived for the composer's admired Aida, Teresa Stolz – two very different singers, who were here joined by a third of yet another hue, the Welsh sourano Margaret Price.

After concert performances of the opera in Munich and New York over the last few years, Price as Joan of Arc reached London on Thursday. As abroad, no doubt, it was an evening to which voice-lovers eagerly looked forward. Although it is unlikely that Margaret Price is as easy at the top of the voice as her predecessor Frezzolini would have been, this is an ideal role for her, especially when the voice is in as fine shape as it was

Verdi's Joan of Arc is less a warrior, more an eloquent visionary, and the composer lavished on the part much of his finest early lyrical writing. For Price this is a heaven-sent opportunity and her singing in the cantilenas around the middle voice was quite unforgettable, the tone perfectly concentrated, the sheen of unblemished heauty. To hear Verdi's long phrases spun out in lines of such silken perfections. tion is a pleasure that is rare Indeed.

It is difficult to decide whether it was her two arias or the duet with Giacomo that was the highlight of the evening. Perhaps the latter, as Sergey Leiferkus was also in such superb form. His is not perhaps a true Italianate baritone, either in the production of the voice or (certainly) the pronunciation, but what exemplary projection this singer has, without any hint of breath in the tone.

Richard Fairman

#### ARTS GUIDE

MUSIC

MI

London Philharmonic Orchesis with the London Philharmonic Choir, conducted by Bernard Haitink, with Nigel Romady (violin), Bruch, Vanghan Wil-(violin). Bruch, Vangnan Wil-liams (Sat). Royal Festival Hall (828 8800). National Symphony Orchestra, conducted by David Coleman, a Spanish Fiesta: (Sun) Barbican Hall (638 88891).

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Radu Lupu (piano), John Birch (organ). Beethoven, Mozart, Saint-Sains. (Thurs) Royal Festi-Saint-Saëna. (Thurs) Royal Festi-val Hall (328 8800).
Dandah String Quartet, world premiere, Nerholm's Quartet No. 3, with quartets by Schmbert in D minor, Death and Maiden and Raval. Wigmore Hall, Wig-more Street. (385 2141)

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Jeune Orchestre Symphonique
d'Europe conducted by OlivierHolt, Møyerbeer, Mendelssohn
(Wed) Salle Playel (456 38873).

Nouvel Orchestre Philharmonique and Radio France Cheir conductedly Hans Graft Carl Maria von Weber — Die Drei Pintos, a Gustav Mahler orchestration in concert version (Thur) Chate-let (402 82828). Orchestre National d'Ile de France conducted by Rousian Raitchev, Toriest Thedeen, cello: Dvorak, Rimsky-Korsakov (Thur)

Ameterdam

Notherlands Philarmonic with the Excelsion Oratoria Society, St Vitus Boys' Choir and solcists. Bach's St Matthew Passion (Mon.

Rotterdam Philiparmonic choirs and soloists, James Conlon conducting. Bach St Matthew Pasducting. Bach St Matthew Pas-sten (Thur). Doelen (413 2460) Frankfurt Opera Orchestra con-ducted by Alberto Zedda a con-cert version of Rossini's Opera Mose with Manfred Schenk in the title role. It also features Eduardo Villa, Lajos Miller, Ale-jandro Ramirez, Valentin Jar, Adalbert Waller, Ilse Gramatzki, Mara Zampieri, Doris Soffel. Alte Oper (Thurs).

Via Della Conciliazione. Handel (Concerto Grosso), Vivaldi (Il Favorito) and Haydn, with harp-ist Cinzia Maurizio and violinist Giuseppe Prencipe (Fri) and Pier-nigi Urbini confucting. Also Strauss's Burleaque in D minor for piano and urchestra Der Rosenkavalier suite (Sun, Mon, Tues) (684 1044). Der Rosenkavalier suit Mon, Tues) (654 1044).

Teatro Alia Scala, Riccardo Muti conducting Mozart's D minor Mass with soloists Edita Gruberova, Ann Muray, Frank Loparto and Giorgio Surjan; also Gotfredo Petrassi's Choir of the Dead" based on the poem by Giacomo Leopardi (Mon) (80.91.26).

New York

New York Woodwind Quintet. Edison Denisov, Cecil Taylor (world premiere), Harrison Birt-wistle, Carl Nielsen, Merkin Hall wistle, Carl Nielsen. Merkin Hall (Tue) (382 8719)
New York Philharmonic conducted by Erich Leinsdorf with Maria Ewing, soprano, and New York Choral Artists directed by Joseph Flummerfelt. Brahms, Debussy, Berlioz. Avery Fisher Hall (Tue) (874 6770).
Original Instruments directed by Makcolm Bilson. Mozart, Beethoven. Merkin Hall (Wed) (362 8719).

Manhattan Philharpeonic Mannattan Frinantisonic Orchestra conducted by Feter Tiboris, Mozart, Verdi, Vaughan Williams, Mendelssohn, Haydn, Effinger, Carnegie Hall (Tue) (247 7800). New York Phillsarmonic conducted by Klaus Tennstadt with Benita Valente soprano. Schub-ert, Mahler (Thur) (874 6770).

Chamber Music Society of Lin-coln Center directed by Charles Wadsworth. Brahms, Perle, Dvo-rak. Kennedy Center Concert Hall (Wed) (254 3778). National Symphony Orchestre conducted by Zdenek Macal. Zwilich, Schubert, Smetans. Ken-nedy Center Concert Hall (Thur) (254 3776).

Chicago Symphony conducted by Leonard Slatkin with Mark Peskanov (violin). Also Bartok, Schuman, Janacek. Orchestra Hall (Tue) (435 0012). Waseda Symphony Orchestra of Tokyo. Takamitsu, Iahii, Stra-vinsky, Dyorak. Orchestra Hall (Wed) (435 0012). Chicago Symphony conducted Chicago Symphony conducted by Leonard Slatkin. Haydn, Druckman, Brahms. Orchestra Hall (Thur) (435 0012).

Japan Philharmonic Orchestra, conducted by Tadaski Ota, with Mari Tsuda (plano). Grieg, Moz-art. Suntery Hall (Mon, Tues) (234 5911). Kikno Watanahe (piano) Schub-ert, Liszt, Prokočev. Tokyo Bunka Katkan, recital hall. (Mon)

(239 9999). Jennifer Bate (organ). Bach (Wed), Widor, Gounod, Saint-Saens, Suntory Hall (Thurs) (505 1010). SALEROOM

# Visions by Blake

A William Blake sketchbook last recorded in 1884, and assumed lost, resurfaced at Christie's last year, and comes under the hammer tomorrow. It contains 49 drawings by Blake, the majority of which are fully worked up visionary portraits of historical figures, and six landscape drawings by John Varley, and is witness to one of the more extraordinary pseudo-scientific projects of the

pseudo-scremm.

18th century.

The visionary heads were the visionary heads were injects? the result of several nights' drawing with John Linnell and John Varley. Blake, on Varley's request, would summon up and record the visages and conversations — of famous figures from the past. They are not confined to his more typical gallery of heroes, saints and poets: we find notorious criminals, murderers and triminals, murerary and wicked women – Charlemagns to Colonel Blood, thief of the crown jewels, and the seductive Saxon princess Rowens.

Blake's ability to see spirits

was legendary, and Varley hoped to harness it to create a system of what he called zodiacal physiognomy - a combina-tion of the "sciences" of astrol-ogy and place took Varley's theories is not clear.

As would befit a scientific study, Blake's idiosyncratic pencil drawings clearly define

shapes of head, forehead bumps, and length of nose. There are images as intriguing and compelling as one might expect from the author of "The Ghost of A Flea." Others verge on the comical. This is the second Varley-Blake sketchbook to come to light in recent years; a smaller folio, since split up, of a number of working drawings for this project was unearthed at Penkill Castle in 1967.

Christle's has estimated the

sketchbook at £500,000, a figure based on the break-up (heaven forbid) value of the drawings. What this quirky, scholarly find will realise on Tuesday is

anybody's guess.

An impressive oil portrait of a young girl seated in an arm-chair by Umberto Boccioni, an artist rarely seen on the mar-ket, is the highlight of Christie's modern art sale in Rome on the same day. Painted in 1910, the year of the birth of Figurative Futurism, and demonstrating an awareness of Cezanne, it is expected to fetch

1800-1900m. The star turn among Sotheby's musical instruments on Thursday is a 1742 Cremona violin by Joseph Guarmeri del Gesu, formerly owned by Henry Holst. Estimate £400,000-£500,000.

Susan Moore

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#### FINANCIAL TIMES

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Monday March 20 1989

# The missing kulak

THE PLIGHT of Mr Mikhail Gorbachev, in his efforts to reform the Soviet economy, increasingly resembles that of A.A. Milne's unfortunate bear, who "whenever he thought it was time to begin, he couldn't because of the state he was in."

He began with an attack on alcoholism, inefficiency and corruption, using the conventional matheds of vigorous. tional methods of vigorous exhortation, punitive legisla-tion, bureaucratic reorganisation and exemplary sanctions. Finding these ineffective he then gave priority to freedom of information and political reform. The intelligentsia was successfully mobilised, but the masses remained unimpressed, for one very simple reason: there was still just as little food in the shops. So now ha has turned to

agriculture, where many observers had expected him to begin. This, after all, was where he had most personal experience, and where reforms in some other socialist coun tries, notably China, have produced the quickest and most

He has had the courage to begin by dismantling the vast-central directorate, "Gosagro-prom", which he himself had established; and he has managed to overrule the views of his conservative rival, Mr Yegor Ligachev, who until 10 days ago was still trying to make out that all the collective farms needed was for the state to spend more generously on improving the quality of fertil-isers and other rural services. Mr Gorbachev rightly pointed out that massive investment in the past had had little effect on lem is structural.

#### Reasons for doubt

There are, unfortunately, several reasons to donbt whether the new policy will produce results quickly and convincingly enough to rally public opinion to Mr Gorbachev's side. The parallel with China is misleading in several respects. China at the end of the 1970s was still an overwhelmingly agrarian economy and in many areas a subsistence one. The experience of full collectivisation there was only a decade and a half old, and was already breaking down at the grass roots before reform was proclaimed from

the top. Once peasants were free to cultivate their own holdings and fix their own prices productivity increased sharply, at once generating a surplus which could be sold for cash and freeing labour for

employment in the towns.

The Soviet Union, by contrast, is now a predominantly urban economy. The terrible experience of forced collectivisation, with the certain terrible experience. ation, with the actual starvation that accompanied it in many parts of the country, is already 60 years old. The most already 60 years old. The most enterprising and successful farmers – the kulaks – were physically liquidated by Stalin, and the tradition of an inde-pendent self-employed peas-antry (never very deeply entrenched) hardly survives; even as a folk memory. Many of the younger rural severaof the younger rural genera-tion have already migrated to the towns, and a rise in food prices might well now provoke more urban discontent than

#### Scope for obstruction

very bold policy, freeing all aspects of the economy at once, would offer a real chance of success. But Mr Gorbachev for political reasons is being obliged to proceed cautiously. Collective farms are not to be dismantled, and the new systems of tenure are to be strictly voluntary. Prices are to be freed only gradually, and not for all products. In other words, the rural bureaucracy remains in place and will be ble to dictate the terms of any leases it grants, control the supplies of machinery, fertiliser, building materials etc. and very likely also marketing There will be all too much scope for obstruction of the reform by people with no obvi-ous interest in its success.

Mr Gorbachev rightly stressed, in his speech to the plenum, that Stalin's brutal collectivisation of the countryside was a key ingredient in the construction of the whole dictatorial system of \*adminis-trative command\* which the Soviet Union is now struggling to break. But he stopped just short of spelling out the corol-lary, which is that an equally bold restoration of private farming would be a key ingredient in any successful policy to liberate Soviet energies and democratise Soviet society.

# The monitoring of safety

IS PAUL Channon, the UK Transport Secretary, just unlucky, or are there more fundamental reasons for the difficulties in which he finds himself over aviation and railway

Mr Channon spent much of last week trying to explain why a detailed warning about the dangers of cassette bombs was not received by airlines until several weeks after a similar bomb exploded on a Pan Am flight over Lockerbie. His defence is that the details of how the bomb

worked were not especially important because an outline warning had been sent earlier. Even if this is true, it seems an extraordinary error of jndgment for the Transport Department to transmit its anti-terrorist warnings through the post, especially at Christmas. The incident can only heighten concern about the way in which the Transport Department discharges its regulatory responsibilities.

responsibilities.
For example, the Civil Aviation Authority (CAA), which is responsible for air traffic conresponsible for air trains tear-trol and the structural integ-rity of aircraft, has wide-rang-ing powers and an independent chairman. But one has to go quite a long way down the quite a long way flown the Civil Service hierarchy – to assistant secretary level – to find someona with direct responsibility for aviation security. And be spends half his time dealing with aircraft noise and other environmental

#### Bomb warnings

Further down the ladder, more junior civil servants make day-to-day decisions on matters such as bomb warnings and are said to be in constant tonch with the intelligence community. But most long-term planning is done by the National Aviation Security Committee, which brings together civil servants, the airlines, airport anthorities, the police and other security organisations, and the CAA. Higher safety standards impose costs, whether in the form of extra hardware, airport congestion, or delays to passengers. There must be a question whether the security committee in the reconstruction.

tion whether the security committee is the most effective body for imposing the safety rules which are needed. At the very least, there should be some consumer representation on the security committee.

The structure of the commit tee would not matter if secu rity could be shown to be effec tive on the ground. Yet Heathrow in particular has repeatedly been shown to be vulnerable to infiltration by nnanthorised personnel, despite the high-profile presence of armed police. The police operate a special secu-rity division at Heathrow under the command of a senior officer. But he has to co-ordinate not only his own forces and BAA's security staff, but 150 ssparate security operations conducted by the airlines using the airport.

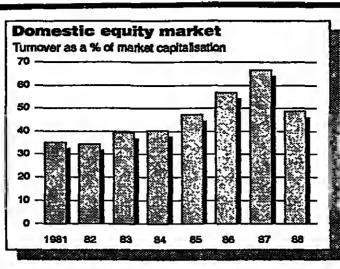
#### Errors and overwork

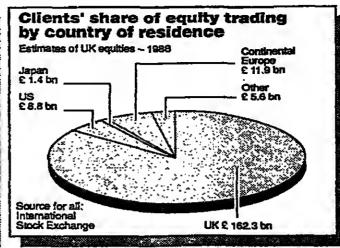
The situation on the railways is less complex, but possibly even more worrying. The reports about the attitude of London Underground to safety which emerged from the public inquiry into the King's Cross disaster are topped only by the evidence of administrative errors and overwork among British Rail staff which is emerging from the inquiry into the subsequent accident at Cla-

The organisation which is responsible for monitoring responsible for monitoring safety on both networks is the Railway Inspectorate, a nominally independent arm of the Transport Department. But the inspectorate reports to the same senior civil servant who is responsible for policing the Government's squeeze on subsidies to both railways.

Given the high capital cost of safety improvements, this arrangement must raise ques-

or safety improvements, this arrangement must raise questions about the Inspectorate's independence, especially since it has been starved of staff for some years. It is also not clear that the Inspectorate has powers to company for example. ers to comment, for example on the shortage of experienced signals staff caused by BR's low wages. One obvious improvement might be to transfer the Inspectorate to another department, say Trade and Industry, which already has some railway responsibilities, or to give it a greater degree of independence.







### John Plender reports on acrimony in London's securities markets

# The row over the rules of the game

ot so long ago the people who mattered in the Lon-don securities markets pre-ferred to sort out their dif-ferences behind closed doors. Today terences penind closed doors. Young things could hardly be more different. In the aftermath of Big Bang and the Crash of '87, leading City figures are openly trading home truths. There is room for argument about who really does matter in the City of London. And the differences that divide members of the country of the c bers of London's International Stock Exchange suddenly threaten to pre-cipitate a first class City row. Some are calling privately for Mr Standalas Yassukovich of Merrill Lynch, the US securities giant, to quit his position as question whether the Stock Exchange really needs the foreigners as much as the foreigners needed the Exchange deputy chairman of the exchange. Ostensibly, the debate is about technical issues. But xenophobia lurks in

the background. Recent changes in the exchange's dealing rules have led to accusations by American securities firms that the old London stockjob-bing fraternity is trying to recreate a British-run club in the domestic equity market. "We don't like the way these changes were done within the confines of a limited group of people, says Mr Jacques Gelardin, who heads the European operations of American Express subsidiary Shearson Lehman Hutton. "They give international firms a sense that we're going back to the pre-Big Bang period, with a rapidly closing inner circle."

For their part, some former mem-bers of the old London jobbing fraternity argue that what is good for the big domestic firms is good for the market and that foreign houses have bused the system, According to Mr Peter Hollowsy, head of equity market making at Barclays de Zoete Wedd, the market has been "a paradise for parasites," who should stop complaining, sit back and wait for the big domestic firms to create a better market environment.

These altercations, and the related argument about the proposed reform of the settlement system, reflect a deeper malaise about the nature of London's Big Bang as market makers losses are estimated to have topped 5500m at an annual rate in the final quarter of 1988. They also raise questions about the future of the International Stock Exchange, which emerged from the marriage of the old domestic exchange and the foreign securities houses that dominated the much larger Eurobond market.

Part of the ourpose of that merger and of the Big Bang itself was to rectify the parochialism of the Stock Exchange cartel by uniting the two groups, thereby enhancing London's international role in the European time zone. The Eurobond houses which were doing increasing business outside the exchange in such leading British shares as ICI and Glaxo were brought into a screen-based market which used the exchange's new SKAQ electronic quotations system. Now some British houses appear to

The chief executive of one of the big-gest domestically owned integrated securities firms, who prefers to remain anonymous, argues that it would not make a halfpennyworth of difference if the Americans were to go This is probably true in the limited

sense that American orders accounted for only 4.6 per cent of the Stock Exchange's £190bn turnover in UK equities last year (see chart). But such aggressive sentiments help explain why the Bank of England is beginning to worry that wider interests may be ignored in the row. So what are the rights and wrongs of the situation? Much of the argument reflects resentment over "fairweather" market making. Because market makers had an obligation to deal with each

other on the basis of the prices and sizes of bargain they advertised on the SEAQ screen, American firms in particular could always rely on fellow market makers to unwind deals for their US clients. But some falled to maintain a consistent presence in the market, despite enjoying the privi-leges of examption from stamp duty and the right to borrow stock from the big investment institutions. "Their screen commitment," says BZW's Mr Holloway, "was only as good as their ability to pass the par-

At the same time the larger market makers argue that the requirements for public disclosure of bargains -the "transparency" rules - were so rigorous that firms were being held to ransom when they reported large trades. Competitors were able to engage in spoiling tactics, adjusting their prices to undermine those who had taken on large positions.

As a result, firms with a high pro-

portion of institutional client busin such as BZW and Phillips & Drew saw little point in making their own capital available to people who were contributing little to the market. Last autumn they temporarily ceased to advertise quotes in any size on the screens and became increasingly reluctant to deal with fellow market makers.

Others, such as Warburg Securities and Smith New Court, continued to trade willingly with all comers. But Mr Michael Marks of Smith argued that market makers would be more willing to risk their capital in the interests of clients if disclosure requirements were relaxed. The response of institutional investors, some claim, was to by-pass the mar-ket and deal with each other direct. Against that background a commit

tee at the Stock Exchange embarked on the first full-scale review of the dealing system since Big Bang. It was chaired by Mr Nigel Elwes of Warburg Securities, which acquired its market makers via the takeover of Alexand & Smithers one of the two Akroyd & Smithers, one of the two largest jobbing firms before Big Bang. Mr Elwes called for the removal of the market makers' obligation to deal with each other and exemption from public disciosure of prices of large

Some British houses question whether the Stock Exchange needs foreigners as much as the foreigners need it

bargains until the following day.

Since the measures were pres as an interim solution which need not affect the ultimate outcome, few on the exchange's Council objected. But Mr Yassukovich of Merrill Lynch, together with the representatives of Shearson Lehman Hutton and Goldman Sachs, voted against. They felt that the decision had been rushed through with inadequate consultation, especially with the traded options and futures markets where reduced information about prices in the cash market is now said to have forced market makers to deal more cautiously. The dice were being loaded, said the dissidents, in favour of the old London club, of which Mr Elwes was a representative, and their heavy. investment in London was being jeopardised.

On the other side feelings are now running high over Mr Yassukovich's readiness to take a stand against the new rules, despite being the exchange's deputy chairman. His posi-tion is further complicated by his role

as chairman of the Securities Association, which supervises the exchange.

And there are allegations of sour grapes. When London became the most open exchange in the world after Big Bang the Americans were expected to cut a swathe through the equity and gilt-edged markets, which were modelled respectively on America's Nasdaq over-the-counter market and the US Treasury bond market. But they signally failed to do so, partly because of a shortage of high coulty because of the same o quality traders, partly because old customer loyalties die hard if stan-dards of service are maintained. Crit-

the most vociferous complainers, Mer-rill and Shearson, were over-ambitious in their investment in grandiose London offices and their initial foray into the market. Other Americans who started later

ics add that it is no coincidence that

and more modestly are less worried. Morgan Stanley International, for example, is unconcerned about the loss of the market makers' mutual obligation to deal because 85-90 per cent of its UK equity business origi-nates with clients; it is not dependent on other UK market makers to mwind its clients' business. Accord-ing to Mr Charles Glessen, who heads its equity market making activity, the firm planned its business on worst case scenarios and "didn't build a palace." It has made profits in UK equi-

ties from the outset, he says.

Nor are hostilities conducted on purely Anglo-American lines. Some British market makers are as amago-nistic about James Capel, the broking subsidiary of Hong Kong and Shang-hai Bank, as they are about Merrill Lynch, Capel does not make markets in UK equities, but does take positions on its own account, leading to allegations that it is free riding on others' canttal.

Yet in the final analysis the case for sacrificing transparency in the interests of liquidity is arguably academic. For it is hard to find many people who believe that liquidity was being seriously affected under the old rules or has changed much under the new. Mr David Prosser, Group Director (investments) at the insurance giant Legal and General, speaks for many when he says this is not an investors' problem. Looking back at the period since Big Bang he says "we've had

good liquidity in large companies throughout." It is hard to find anyone who can substantiate the claims that business was by-passing the market.

At the root of the squabble is the underlying crisis of profitability: the shortage of business to support the huge investment in office blocks, dealing rooms and staff made in London on the assumption of huge increases in volume after Big Bang. With market leaders such as Phillips & Drew and James Capel reporting big losses in the past month anxiety now horders on panic.

in the past month anxiety how norders on panic.
Significantly, both Mr Gelardin of
Sheerson and Mr Holloway of BZW
are at one in believing that full transparency would work if trading volume
were higher. But since the last quarter of 1986 when Big Bang took place
equity turnover has increased by only
16 per cent. After the freak years of
1986 and 1987 investors are once again 1996 and 1987 investors are once again trading less than a quarter of their portfolios each year (see chart). So the portfolios each year (see chart). So the larger players are engaged in a hugely expensive game of chicken, in which all are highly sensitive to any change that might force them to drop out before the others. Mr Gelardin argues that tampering with the market rules actually worsens the situation by putting off the day on which firms control reality. front reality.

The protracted process of attrition is also exacerbated by a more fundamental problem. As Merrill's Mr Yassukovich points out, the speed with which buyers and sellers can reach each other electronically is reducing the scope for the market maker to add value for the costomer in basic securities trading. Yet the cost of skills and equipment is rising and more capital is needed to cope with market volatility. "The return on capital in trading securities is reducing all the time," says Yassukovich, "and it is hard to see what would restore traditional levels of profitability. We're watching a financial function dying."

No doubt the warring factions in the market will ultimately reach a the market will ultimately reach a compromise on the dealing system. But the experiment in liberalisation started by Big Bang is clearly an enduring and painful phenomenon. The domestic equity market has moved from being a protected domestic backwater to a piace where great tidal waves of global capital create destabilising eddies and whirlpools, and where banks and securities firms and where banks and securities firms of every nationality battle viciously for supremacy or survival. London is impossible to escape the powerful backwash of changes in regulation, taxation and portfolio preference in the much larger financial centres of New York and Tokyo.

Perhaps the surprising thing is that tensions within the international

Stock Exchange have not been more acute in a market that is hostage for the first time to overwhelming global

## Donkey work pays off

One Minister who did much of the work on last week's bud-get has received very little of the public credit, or blame. He is Norman Lamont, the Financial Secretary to the Treasury or FST. He was even omitted from some of the news-paper photographs of the Treasury team.

Oddly enough, for rather a colourful figure, Lamont does the donkey work. He has been looking after tax at the Treasury under Chancellor Lawson for the last three years. And, luckily for him, this turned out to be a donkey worker's budget. Nothing much of the macroeconomic; largely a mun-ber of technical changes, the importance of which will become clearer as the Finance Bill is introduced next month. Lamont will have a lot to with

It must be quite hard being FST under Lawson, since the Chancellor once held the job himself, which was when he introduced the Medium Term Financial Strategy. But Lawson is not always overly interested in detail and gave a lot of responsibility for this year's

budget to Lamont.

A few months ago, that
might not have made much
difference. The budget might
might still have been macro. But as the case for a "boring" or neutral – budget became stronger, Lamont came into his own. For it meant using the tax system for reform, and that was Lamont's subject. No one would claim that the No one would claim that the changes in the national insur-ance contributions — perhaps the most striking single item in the budget — came from the FST alone. Lawson himself was very much involved, along with outside advisers such as Professor Mervyn King of the London School of Economics. But there were other subjects London School of Schoolmas. But there were other subjects like Personal Equity Plans (PEPS) and Employee Share Ownership Plans (ESOPS). They have been around for while in Lawson's Chancel-

# **OBSERVER**

lorahip, but have never quite taken off Lamont was entrusted to put some pep into

them.
There were also pensions and life assurance where the Finance Bill will introduce substantial changes. The broad thrust of the measures it to encourage more and more peo-ple to invest in shares directly. On pensions it is to steer them away from occupational schemes towards greater per-sonal choice.

Lamont is at home in all that. The detail of the Finance Bill will be very much his. Dur-ing the debates he will have a chance to raise his head above the donkey work and become a major front bench figure. The eyes, obviously, are on the Cabinet in the autumn.

One at a time ■ Gut instinct always told one

that Wales would win their last international match of the season against England at Car-diff on Saturday. And it was not only because England had not only because England had not won there since 1963; it was more that the Welsh, hav-ing lost the rest of their games this season, would be bound to fight back, especially against the English. I should have bet on it, but did not. In the end it was rather closer than I had swarted

than I had expected.
Back, however, with a perennial complaint that must be
shared by televison rugbywatchers all over. Why, when there are so few rugby internationals, do two of them have to be played on the same day? We like to watch them live and we like to watch them and we like to watch them whole. It is not good enough simply having extracts from the second match which, like Saturday's encounter between Scotland and France, looked a much more entertaining



game than Wales against Rogland. What is the reason

for this? There is surely no shortage of viewers throughout the short season.

Canada House ■ The Canadian National Capital Commission, which looks after the country's national heritage in Ottawa, wants to buy Earnschiffe, the residence of the British High Commis-sioner, and turn it into a

memorial for Sir John A Mac-Donald, the first Canadian Prime Minister. MacDonald, who was born in Glasgow but emigrated to Canada in 1820 at the age of canada in 1620 at the age of five, lived in the house for eight years until his death in 1891. A grey stone building situated directly opposite External Affairs, Earnschiffs was the only house that he ever owned in the nation's capital.

A spokesman for the High Commission says that no official approaches regarding a

possible sale have been received, but that the Commission, which has owned Earnscliffe for 60 years, has no desire to move.
The NCC says that the mat-

ter of how to acquire the house is "under consideration by the government".

Prime site

■ Almost opposite the Kensing ton Odeon, although not every ser-by will have notice passer-try will have invalid, stands the Commonwealth Institute. The Institute can also be seen from parts of Hol-land Park. It is, in its way, rather successful, attracting up to 400,000 visitors a year. It was also recently listed by the Department of Environment as a Grade 2 starred structure, which sometimes seems like a kiss of death. Yet the Institute has never

quite made the most of either its opportunities or its site. It is now embarking on a programme of redevelopment, along with much of Kensington High Street including the

The schedule is tight: appli-The schemic is tight appli-cations with plans to be received by June 9 this year and with the successful candi-date being informed on Octo-ber 6. One hopes that this com-petition is being widely advertised, for both the Com-monwealth and the Kensington site deserge compthing good site deserve something good.

Easy life

They take things easily in Birmingham. A firm called Pauline Hyde & Associates Ltd has finally caught up with 1992 and all that and is holding a seminar about the person aspects. After raising the question of whether we shall be flooded with an invasion of Southern Italians morphing up the lower paid jobs, the invita-tion goes on: "Most of the great messages are short — which is why our seminar only lasts a morning. If you would like to play golf at the Belfry in the afternoon as our guest, you will be very welcome."

THE LORD'S TAVERNERS PRESENT

# THE "FOUR NATIONS **CUP" SNOOKER TOURNAMENT**

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#### Stefan Wagstyl reports on growing anxiety in Japan over the concentration of wealth and power

"BANZAI" said the taxi-driver when he heard this month of the arrest of Dr Hissain Shinto, the most powerful figure so far to fall victim to the Recruit financial scandal.

They've got him at last.

Great news: Ordinary people are sick of these men and their money. If they get Nakasone (the former prime minister) we'll have a party."

People interviewed on televi-

sion tell the same story, if in less colourful language. The affair, which concerns the distribution of bribes in the form of cut-price stocks to influential people, has provoked an outery about the huge amounts of money sloshing about in public-life. Dr Shinto, in the popular view, is getting his come uppance.

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The hearsay evidence is borne out by opinion polls which show that Recruit has pushed public dislike of the ruling Liberal Democratic Party to its highest-ever level According to the Centre for Political Public Relations, an Political Public Relations, an opinion study centre, 25 per cent of people now "strongly dislike" the LDP; this compares with zero normally and 2-3 per cent at the height of the Lockheed affair in the 1970s, the last serious scandal.

This popular resentment has yet to translate itself into sup-port for any other party, not least because the Parliamentary opposition, including the

Outside the charmed circle Japan Socialist Party, has been touched by the scandal. But many people are angry with the political establishment as a whole. Mr Takayoshi Miya-

gawa, a political analyst, says.
"People want to vote for a new
party which doesn't yet exist."
Perhaps for the first time, the politics of envy is at work in Japan. People who used to price themselves on its egalitarianism are becoming aware of a widening gulf between themselves and a rich and powerful elite.

The allegations of wide-spread corruption at the heart of the Recruit affair drive the point home. It is has long been taken for granted that politi-cians, and others with influence, make money on the side. But the average Japanese shakes his head in dishelief at reports that shares worth up to Y150m changed hands at a time - 20 times the average annual income.

The roots of this resentment lie in the great disparities of wealth and lifestyle which have emerged in the 1980s.

Japan remains one of the most egalitarian of modern societies. Wages and salaries are more evenly distributed than in the West. Education is still the key to entering a top-

flight career in a government ministry or a big company. About 90 per cent of Japanese say they belong to the middle class. They cherish the idea that all are sharing equally in Japan's economic success.
But this sense of equality
has been undermined in the

1980s by the rapid rise in land and stock prices. While the vaine of most people's land holdings have doubled in the 1980s, those of the wealthiest 20 per cent have trehled. In Tokyo the cost of buying a house has gone beyond the dreams of the average salaried worker. Couples are taking on two-generation mortgages which their children will have to pay off.

The booming financial markets have shapened excels its.

The booming financial mar-lets have sharpened social dis-parities by giving those with surplus funds a quick route to doubling and re-doubling their money. Mr Koji Kakizawa, an LDP Diet member, says: "In recent years people have got nothing from labour and every-thing from capital."

Moreover, the rich are spend-Moreover, the rich are spending their money as never before. Even 10 years ago con-spicuous expenditure was

frowned upon in many circles
- now it is becoming increas-

ingly acceptable to flaunt

wealth. Japan has surpassed the US as the world's biggest market for diamonds. At Mitsukoshi, the posh department store, this year's traditional New Year lucky bags included one for Y500m containing a Picasso and a Renoir.

At the financial peak of society, the accumulation of capital has created a new elite. interested not only in wealth but also in power. In the immediate post-war period politics was open to talent. Now families connected by blood, mar-riage and patronage are taking the place of the old aristocracy which was largely, though not entirely, swept away hy the war. Inherited wealth and position have become the keys to

The rise of the new establishment is most evident in the Diet where about one third of the ruling LDP members are sons or sons in-law of former politicians. Mr Shokei Arai, an LDP member, says he is the only ruling party Diet member out of 14 under 40 not to have family connections to another politician. He condemns what he calls "the privatisation of Political dynasties shound.

Nearly every post-war prime minister has a son or

son-in-law in politics. Mr Noborn Takeshita, the current controlled. Mr Ezoe was able to prime minister, has a daughter buy access to the fringes of married to the son of Mr Shin power. For his pains, he has Kanemaru, a party elder states-man. Mr Yasuhiro Nakasone, now been indicted on several counts of bribery, his business the former prime minister, has and political career in ruins, a son in the House of Councilwhile the politicians who took lors, the upper house. His pre-decessor, Mr Zenko Suzuki, has his money have so far got away scot-free.

a son in-law, Mr Taro Aso, in the Diet. Mr Aso is in turn the grandson of Mr Shigeru Yoshida, another former prime min-It is not just the nouveau riche like Mr Ezoe who are forced to feed millions of yen to the politicians. So does big ister, and a brother-in-law of business. Mr Shinto, whose Prince Tomobito, a cousin of the emperor. The families of all arrest delighted my taxi-driver, was the chairman of Nippon Telegraph & Telephone, but three of Japan's 17 post-war prime ministers have in Japan's largest company. He says he did not accept shares from Recruit for his own beneone way or another allied themselves by marriage to the Imperial family.

As well as stains, marriage secures money. Mr Takeshita and Mr Nakasone both have daughters married into fami-

man in the street, what made things much worse was the revelation that the Y800m fund was composed largely of contri-butions not from the compa-ny's profits but from the NIT workforce. "Voluntary" donations were made according to seniority. self-made businessman at the centre of the Recruit scandal. By offering leading politicians cut-price stock in Recruit Cos-

Mr Miyagawa is convinced that public anger over Recruit is like "a torrent which could destroy the LDP." As a prime



inisterial adviser, he has told Mr Takeshita as much. He may be wrong - anger over Recruit could die as quickly as it was born in a rich and self-satisfied dle-class quickly retreats from

public into private concerns. But many politicians believe that there is a possibility that Mr Miyagawa is right. If so, it is not just the government's future which is at stake, but that of the whole LDP party.

r Lawson's Budget has the appearance of being cautions but his economic strategy runs high risks. His Budget sensibly harnesses labour supply incen-tives hy removing a major work disincentive for the retired it reduces disincentives for the low paid, part comper sation for the worsening of the unemployment trap that is resulting from the Govern-ment's housing policies and the house price and rent spiral. However, the increased incentives for personal saving neglect the fact that the decline of personal savings has

much to do with the rising trend of personal wealth rela-tive to income. These incen-tives may well boost equity prices, increase the wealth to income ratio further and so cancel the intended stimulus to As far as financial wealth is concerned, the Treasury's sanguine, view can be defended: financial capital is internationally mobile, financial markets are competitive and not subject to large fiscal distortions. Though temporary overshoots can occur, financial market

values in the longer run proba-

bly do not deviate greatly from

economic fundamentals.

The same cannot be said for personal sector physical wealth, largely dwellings and land, accounting for around half of net wealth. No assets could be less mobile, and these markets are now the most distorted important markets in the UK. A reduction in the underlying distortions would bring net wealth into a health-ier relationship with income. This would help to control con-

sumer spending and bring important gains in overall eco-nomic efficiency. This is where the Chancellor has missed a great opportunity for a tax reform alternative to his risky high interestrate strategy.
In 1961, net wealth was around 3.5 times annual personal disposable income. The ratio is now probably a little over 5, an all-time record. Behind the rise in financial wealth relative to income lie a number of favourable economic developments: global distribution; a fall in the prices of imported compared with UK-produced goods; the return of economic growth, productiv-ity growth and company profit-ability matching the "golden

The case for a tax on land age" of the late 1950s and 1960s; and high oil revenues which have made government

surpluses possible. Many of these factors also account for part of the spectacular increase in house and land prices relative to income. Between 1981 and the second quarter of 1988, the price of an average building plot divided by per capita personal disposable income in the UK went from 1.6 to 41 in England and Wales, from 2.3 to 7.2 in Greater London and from 22 to 7.4 in the rest of the south east. However, there can be no doubt that the liberalisation of credit, given a tight land use planning system and tax advantage to owner-occupa-tion, explain much of the increase in land prices. These tax advantages are well known and have been increased fur-ther by the abolition of property taxes (domestic rate) in

By John Muellbauer Scotland this year and England and Wales next year. This will make house price to income ratios some 20 per cent higher on the average than they otherwise would be, according to Peter Spencer, an economist at Shearson Lehman Hutton.

The effect on land prices is even bigger. Furthermore, other subsidies to housing are increasing under the Business Expansion Scheme, large subst dies to investment in rental accommodation are being made. Payments of housing benefit are set to soar to com-pensate tenants for higher rents. These subsidies, parity themselves the result of prob-lems caused by high land prices, nitimately largely accrue to the owners of land.
The policy response to the Treasury's late perception of the disturbing trends in the savings ratio and the trade bal-

short-term interest rates. Debt on which interest payments are made exceeds assets on which such interest income is received. The result, the Trea-sury argues, is to squeeze household spending. However, the side effects of high interest rates, for example, on the cost of living and on small firms are unpleasant. In particular, they bear on indebted young wage and salary earners as against the wealthy old, generating

lies owning construction com-panies - Takenaka and Kajima. The construction industry is one of the LDP's

most generous supporters.
It almost impossible for outsiders to break into the

charmed circle. One who tried was Mr Hiromasa Ezoe, the

UK economic policy

pay pressure.

More fundamentally, they are a short-term response to what, despite the relative complacency of the Bodget speech, is a long-run problem. In the liberalised financial markets of 1989 one must have serious doubts about how long they can be made to stick, as Clive Wolman pointed out (FT, Janu-

ary 7 1988).

To give another example, most owner-occupiers who are

unhappy about paying current British mortgage rates can do what I did. In the course of a painless transaction taking only a few minntes in my friendly high street bank I effectively switched my mortgage into one charged at much lower German interest rates.

Someone with, say, a £30,000 mortgage who wants to do this for, say, 6 mooths simply takes on a \$30,000 contract to buy sterling against German D-Marks in six months. The quoted price will be the cur-rent spot rate minus the short term interest rate difference between the UK and Germany. If the exchange rate remains steady, he or she collects this interest rate difference as a capital gain six months hence. The gain is higher if sterling appreciates but lower if it depreciates. For most owner occupiers, the gain will be below the CGT exemption limit

and so tax free while full tax relief on UK mortgage repay-ments continues.

Given the Government's anti-inflationary stance, the currency risks do not look excessive. As more borrowers became aware of the opportu-nities, sterling is likely, if anything, to appreciate until the perceived currency risks outweigh the interest rate rewards. The consequences of this for exporters and import-ers, and so ultimately on the

trade balance, are obvious. Sooner or later, whatever government is in power will have to consider proposals of the following type among the policy options. I propose a tax on residential land values. Specifically, I propose that 1 per cent of the current market value of each plot of residential land above some exemption limit be paid to the Inland Revenue each year. An exemption limit of say £15,000 would ensure that many owner-occupiers escaped the tax altogether while rebates similar to rate rebates would be available to those with low cash

receipts. Market values of plots would be established by the existing district valuers and indexed annually to local land price indices.

Revenue from such a tax would be substantially lower than from domestic rates and so politically more acceptable. Because it would be paid on undeveloped land zoned for housing, as well as on occupied land, this tax would have a more substantial effect on land prices by encouraging the release of such land, than a housing tax raising higher revenue. It would avoid the old Schedule A problem of complicated allowances for residen-tial improvements. It would be better for first-time huyers than the housing tax I discussed in "Why we need to tax the market value of houses" (FT, May 11) without losing most of the latter's advantages. It helps to reduce regional eco-nomic imbalances, assists the development of rental markets, reduces tax distortions and the unemployment trap and helps capture some of the economic benefits stemming from public incomes. Landiords would be investments.

able to deduct all or part of the tax from tax due on their field College, Oxford.

# IFTFERS.

#### The two hats of a German banker

From Mr Alexander Uberoi. Sir, Your article "The need to open up corporate Germany (February 13) made several correct observations. I would like to point out a few

In the case of public stock companies, it is necessary for the management to be in constant dialogue with their owners — the shareholders. This is ers — the shareholders. I'ms is not so in Germany. The Ger-man Universalbanken hold only very limited participation in German public stock compa-nies. At the same time, they exercise a substantial amount of influence via the so-called Depot-Stimmrecht, where the bank exercises the voting rights of the shares which they hold for their customers. This

From Mr E.W.I. Polamountain. Sir, Mr Smith (Letters, March 11) is correct in insist-

ing that a rights issue should remain the standard method

by which to raise fresh capital.

The procedure is, in fact, a notable British invention. It

was adopted elsewhere (although not in general, by the US), and its imnate superiority to other methods is in its

leads to the peculiar situation of the supervisory boards of German public stock compa-mes having bankers almost

exclusively as members.

It would be fine if one could say that these bankers repre-sent the shareholders. How-ever, they do not. The banks ever, they do not. The banks they are representing will, in almost every case, be heavily involved in granting credit facilities to the company in

cuestion. The banker is therefore a two-headed Janus: on the one hand he is the supposed repre-sentative of the shareholders, and on the other he is trying to secure the extended loans. Needless to say, in such a situation the management will feel no need to talk to shareholdPatient care

From Dr Catherine Kroll.
Sir, I whole-heartedly share
your reservations about the ers. They discoss issues with the benkers on their supervi-sory hoard, whether they be equity or debts. Health Service white paper ("The doctors disapprove", March 14). Particularly worry-This practice leads to miniing are the proposals to increase capitation-related earnings and replace item-ofstandard dividends being paid ont, as the bankers on the supervisory board obviously prefer to keep the profit in the sarvice payments with targets which for inner-city practices are likely to prove unattainable. These proposals present doctors with a dilemma. Do we company, thereby over-secur-ing their extended loans. This in turn leads to a strong underfollow the commercial logic of the white paper and risk a deterioration in patient care, or do we continue to put the

patient first and take pay cuts. In one respect you exagger-ate doctors' ability to take this degree of responsibility for the services they provide. Only about a quarter of doctors are in large enough practices to become hudget holders. The rest will have no option but to send patients wherever the health authority directs. So at least three quarters of the pop-ulation will be deprived of the choice of consultant which

they currently enjoy.

From my perspective, the white paper is a cost control exercise, and will do little to improve freedom of choice or improve quality of service to

Directors must keep shareholders informed

onwards.

Alexander Uberol,

West Germanu.

Limburger Strasse 3,

D-6240 Könlastein/TS.

question, however, defenders of pre-emption rights do have to recognise that certain other options may sometimes in practice be more economical. This is because, as your other correspondents have pointed out, rights issues are not cost-free, and a vendor placing, for example, at a minis-cing for example, at a minis-cule discount might well cost the shareholders less than a rights issue, particularly if the latter is underwritten (as they

effective restriction of the extent to which directors can all to often are). But the onus must always be dilute the interests of share-Insofar as financial rather on the directors to tell their than voting interests are in shareholders that any such

alternative is preferable. These anternative is preserana. These considerations are particularly topical because it has been suggested that issues of new shares unrestricted by rights might be an effective way of spreading share ownership.

If this idea has grown out of the experience of the privatisation issues, it should be noted that the associated marketing

valuation of almost all major companies at the stock market,

which will make them very

attractive for hostlle takeovers

in Germany from 1989

that the associated marketing patients, costs would surely make such an issue more expensive than a 100 Lavender Hill, SW11 rights offering. E.W.I. Palamountain, Wider Share Ownership

94 St Paul's Churchyard, EC4

#### The constitutional future of Europe

Sir, Fred Tuckman argues that "success is built on public confidence" (Letters, March 15). That is precisely what the European Commission does not enjoy, and is the fundamental reason why so many people are scentical about 1992 in particular, and the drift of the EC in general. To argue that the British Government bears no responsibility for maladministration of the Common Agricultural Policy (CAP) is

Agriculture represents one of the major surrenders of sovereignty to the EC. The script for all the ghastly follies of the CAP was written and produced in Brussels by officials who refuse to ditch it for fear of hindering the prospects for European union.

It is the Commission which

From Mr Richard Cottrell MEP. for more than 20 years has ignored public criticism of waste, mis-management, fraud and bitter resentment against over-production and environ-

over-production and environ-mental damage wrought by subsidy-fuelled intense farming inspired through the CAP.
Within the past few days, Mr Jacques Delors, the Commis-sion President, has displayed the strength of his concern by accusing Mrs Thatcher of rais-ing the fraud issue as a pobit-cal diversion. If the CAP represents the skill of the Commission in "running large projects" then we should be alarmed for the future.

It is correct, as Sir John Hoskyns has implied, that parts of the 1982 legislative programme are defective and wrongly inspired. The Commission has always regarded the Treaty of Rome as an interventionist

instrument. Post-1992 that same Commission, elected by no one, will enjoy unrivalled powers over all our lives and

state or prime minister in the

member countries.

Dean House,

Bower Ashton,

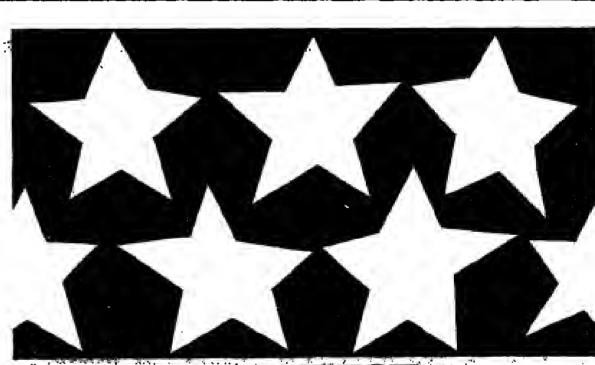
and the rest of the Commission accountable? At the Institute of Directors conference, Sir John provoked an important and long-overdue debate on the the European Commission, who have quite enough appointees of their own to manage that task. Richard Cottrell.

### Risky business

From Mr Edward Harkins. Sir, I agree with Lex (March 14) that we should debunk the

myth that the UK venture capi-tal industry is full of brave investors taking high risks in return for high returns. While Lex is correct in distinguishing between genuine risk ventures supply its president with as and management buy-outs much power as any head of such as MFI and BPCC, I would draw another distinction, between the institutional To whom are Jacques Delors and individual investors in the capital venture field.

Business expansion scheme start-up companies are making it clear that many individual investors are willing to equate constitutional future of higher levels of risk with Europe. This debate will not be enriched by MEPs acting as this really ought to shame the press and publicity officers for institutional investors. The failure of institutions to back venture schemes in any sustained or substantial wsy remains a major weakness in our economy. Edward Harkins, 39 Stonelon Drive.



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# FINANCIAL TIMES

Monday March 20 1989



Janet Bush on Wall Street

#### **Technology** for the traders

within the computer industry that technology will improve 1,000-fold between now and the year 2000. The breathtaking speed with which technology is advancing presents a formidable opportunity and challenge for companies whose competitive edge increasingly depends on investment in the most up-to-date equipment.

This is no more true than for companies committed to trad-ing in global securities mar-kets, well represented at a two-day conference here last week on Trading Technology, arranged by international management and technology con-sulting firm Arthur D Little.

Since 1984, the number of MIPs (millions of instructions per second) has doubled every year. Memory capacity has tended to quadruple every two years. Speaking at last week's conference, Mr Edward Boy-han, chief technology officer for Amtech (Asset Management Technology Corporation) and formerly of Salomon Brothers, said that it was not unreasonable to expect this pace of change to continue.

Wall Street firms then face the tough decision about what point they should make extraordinarily expensive investments on this steeply ris-

ing technology curve. There appear to be three prime issues for securities firms and for the computer companies addressing their needs: an effort to impose stringent cost controls, a desire to expand glohally and the importance of managing risk.

During the great bull market of the 1980s, securities houses bought into the latest technology with an abandon which is

ogy with an abandon which is no longer possible. Since the October 1987 stock market crash, the emphasis has shifted from rapid expansion at any cost to cantious and strategic planning for new technology with cost-control at the fore-

front of thinking.

The securities business is increasingly high volume and low margin, placing a premium on productivity. The biggest cost of any trading room is paying dealers' salaries: tech-nology offers the opportunity of increasing the productivity of a trader and cutting the

number of traders needed. Currently, a trader can juggle about seven different pieces of equipment on a trading desk, including his phone, a database, a dealing screen and a quantitative analysis model,

for example. In the future, a trader will be able to handle around 1,000 instruments like an orchestral conductor," says Mr Boyhan.

Then there are the challenges of an increasingly inte-grated global trading market. Systems must be able to be linked up across time zones for efficient dealing, clearing and

At last week's conference, Mr Richard Justice, executive vice president of automation at the National Association of Security Dealers, predicted that an electronic screen-based international stock market will evolve which will be separate evolve which will be separate from existing markets. This evolution will depend heavily on the development of the appropriate technology.

The third major concern is risk management. Increas-ingly, trading systems are incorporating sophisticated software and so-called expert systems (programmes which go some way towards replicating human decision-making) to beln a trader keep abreast of his exposure, arbitrage and hedging opportunities. British Telecom is one firm

committed to developing ever-more sophisticated trading systems to serve a worldwide market. It estimates that in 1988 it won about 40 per cent of all new orders for advanced

It expects to start New York demonstrations of its new trad-ing system – the Rapid Application Development System or RADS – as early as next month. The system, already being demonstrated in London, is designed to address the three major concerns detailed above of trading houses going

into the 1990s.
In all this whizz-bang talk, one fundamental consideration overrides any other and that is whether all this sophistication will find acceptance among

Mr Stephen Levkoff, who was instrumental in putting in a new system at Smith Barney where he is a managing director, says: "Traders are not technicians, they have an attention span of 30 seconds and most of them think they know more about everything than God. The main thing is to make these damn systems

# China shuts door on rapid reform

Peking may crack down on political debate, Peter Ellingsen reports

HE haloyon days of China's economic and social liberalisation

a social liberalisation appear to be over. While Peking will still maintain an open door to foreign capital, it now appears the recent flexibility toward Western political ideas and rapid financial reform is to end.

In related moves, the Government has signalled an imminent crackdown on political debate and a partial return to centralised planning. As part of a mounting tide of censorship, academics have been warned against signing petitions calling for the release of political prisoners, while foreigners have been told not to "interfere with China's inter-"interfere with China's inter-nal affairs".

The clearest indication of the

The clearest indication of the new hard line will come in a speech which Li Peng, Prime Minister, will deliver before the National Peoples' Congress, China's parliament. In his most important message of the year, Li is expected tomorrow to detail policies to represent the Communist Party. strengthen Communist Party

strengthen Communist Party control and reverse the devolution of power begun by his predecessor, Zhao Ziyang.

Now Zhao, the party secretary and Li's rival, is believed to come under indirect attack in the prime ministerial speech for his alleged mishandling of the percent of the secretary is address to the economy. Li's address is expected to blame last year's record inflation on the rapid growth in construction and production encouraged hy Zhao, and on the former pre-mier's alleged failure properly to establish macro-economic controls.

While assuring delegates that the Government will not impose overly-tight restric-tions, or revert to the past



Li Peng: Strengthening Communist Party control

model of total centralisation of power, i.i will make clear that China intends to stick with socialism and take a cautious approach to privatisation, a favoured measure of Zhao's

Peoples' Congress, which theoretically is the organ of highest authority in China, will have little choice but to rubber stamp the Premier's policies.

This is also a blow to reform, because more meeting of the power, Li will make clear that China intends to stick with socialism and take a cautious approach to privatisation, a favoured measure of Zhao's

If, as expected, Li's report is endorsed by the 2,976 delegates, it will constitute a blow to Zhao's reputation and provide conservatives with increased clout. Zhao, a pro-tégé of Deng Xiaoping, the par-amount leader, has been a key advocate of the rapid reform measures that have marked China's development since China'e development since

By increasing rather than lessening control over prices, and reversing the devolvement of power to the regions, Li and Yao Yilin, Vice Premier and his close ally, have in effect turned back the process of reform

With a majority of the lead-ership apparently sopporting the more cautious approach, it is expected that the National

delegates, particularly those from Hong Kong, may try to raise their voices in opposition, but it is now unlikely their views will get much of an audi-It is believed that a number

of the delegates to the Congress, and the Chinese political consultative conference, which is also holding meetings in Peking this week, have signed one of three petitions calling for an amnesty for political pri-

But, in what looks to be an attempt to warn others who may be thinking of speaking out, Xinhua, the official news agency, put out a strong commentary at the weekend accus-ing one of the initiators of the amnesty drive, the Shanghai writer Chen Jun, of "blackmar-ket and other illegal activi-

Claiming the petition is esigned to stimulate foreign media and put pressure on the Chinese Government, the commentary says: "The Chinese people suffered enough from foreign invasions before the liberation (and) since then...The Chinese people have become masters of themselves."

In an unusually strident attack on Western influence, and by implication, reform, it goes on: "Copying foreign polit-ical systems and experiences will not save China.

"Modern history shows that the road which combines Marxism and China's practical conditions is the only one that will lead China to victory, and it is also the road the Chinese people have chosen for them-selves. Nobody can ever change it.

#### the oil bears Some independent-minded Nov 1, 1988-100 Brent blend oil price

That dodgy time of year when oil prices are meant to fall has been and gone, and the errors of bearish oil forecasters now appear in boldest relief. Last week they finally admitted that \$18 oil was not the fragile affair they had assumed, with the result that the oil price rose by \$1.50, leaving the oil sector 5 per cent higher than a fortnight ago. If, as seems fortnight ago. If, as seems likely, the movement was simply a matter of bears squaring books, it may not stick. In the crude market the rise was almost certainly technical, and the \$1.50 members of most over the \$1.50 premium of spot over forward prices is a sure emough sign of a good old fashioned short squeeze.

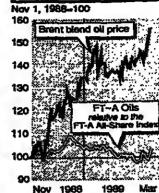
At first sight, the rise in off shares looks better founded. Since last December the fraught relationship between oil prices and oil shares has broken down, with the oil sector underperforming a rising stockmarket by 15 per cent, despite a rise of over 50 per cent in the oil price. Even after last week's advance, the sector relative is no stronger than at the start of 1987, when the oil price was lower and everyone expected further falls.

By contrast, the prognosis for the oil price is now fair, the hundreds of millions of barrels of oil that were meant to be overhanging the market seem either not to have existed at all or to have been largely absorbed by the extraordinary 5 per cent growth in demand in the fourth quarter. Meanwhile, Opec is ignoring any small lapses by its members, and the prospect of an imminent Opec/ non-Opec meeting is casting a reassuring, although perhaps thin, gleam over the market.
While the big risks in the oil

price may have gone, the impli-cations for the sector may not be correspondingly good. Everyone knows the indepen-dents move with the confidence of potential hidders, which has little to do with today's oil price. As for the majors, there is good reason for underperformance. Even assuming the oil price stays at \$18, earnings cannot be much better than flat, which means it is not reasonable to expect the generous, dividend increases in prospect from the rest of the market.

#### Gold Fields

The low turnover in Consolidated Gold Fields shares in recent days had already been signalling that Minorco's sec-ond bid had failed. If there had been any chance of Minorco winning, investors would have been selling for cash in the market rather than taking



A bad spring for

Minorco paper. The sudden spurt in Gold Fields' shares at the end of last week only confirmed the impression that Minorco is going to have to make a third bid if it wants this company.
The more nervous investors should have balled out already.

snown never paned our agreedy. Since the bidding started six months ago, eurodollar interest rates have risen by 25 per cent, the outlook for the gold price has deteriorated and the price tag being put on Gold Fields has risen substantially. Minorco made the mistake of not getting its offer underwritten and believing that UK institutions want the paper of a company whose share price is pretty meaningless. However, it has not lost the initiative and a final offer of between \$15 and \$16 would be between £15 and £16 would be hard to resist. Gold Fields will be hard pressed to demonstrate that the company is worth any-more and there is always an outside risk of an adverse US court ruling.

Japanese trusts

The foreigners' campaign for financial equality in Tokyo has been going relatively well of late, and now the chances are that even the Japanese investment treat preserve may have ment trust preserve may have to tolerate foreign faces. In the context of a UK investment trust sector which has had far more defections than recruits more delections than recritis-in recent years, it may be diffi-cult to credit the enthusiasm of foreign fund managers who are lobbying hard to enter the Jap-anese market. But almost everyone professes optimism for the future of investment trusts in Japan. The industry may have been small and failing for most of the time since the first trust was set up in 1951, but the past three years

have begun to rewrite history. Since the end of 1985, the industry's assets have more than doubled, to Y50 trillion at the end of last year; and

annual growth of 15 to 20 per cent should carry on for same time to come. Now that the Finance Ministry is considering issuing new Rocces to operate invostment trusts for the first time to years, foreigners want to make sure that they get a chance to prove their comparative advantage.

Already they are gearing in to demonstrate their special takents at pension fund management, following news that the duopoly of life companies and trust banks over corporate pension fund management is to be broken. But the funds involved are relatively small outstanding assets are barely a third the current size of the investment trusts, and only a fraction of that figure will be opened to competition. Foreign upstarts in the investment trust market may also find it tough to wrest husiness away from the Japanese securities houses which now dominate it—assuming the ministry eventually allows them to try. But if the market continues to grow at its present pace, it if the market continues to grow at its present pace, it should easily prove large enough for everybody.

#### Taurus

The City's decision last week to abandon the original Tenne settlement system is yet another vote of no confidence in the Stock Exchange, which has spent over five years throwing money at the prototype. There appears to be some doubt whether the Stock Exchange is capable of con ducting major technological projects efficiently, and the market has sensibly decided to market has sensibly decided to build on what it has already. Not only will this be cheeper, it may just mean that something will actually be done about the existing antiquated process without further interminable delay.

Still, the proposals scarcely amount to the "fastest, safest, simplest, cheapest system possible" that was demanded so urgently by the Bank of

sible" that was damanded so urgently by the Bank of England last month. With the move to a paperless system only half-hearted, London will still be at a disadvantage to every grown-up market in the world. It will also seem backward against second division markets like Paris, which testells a symbion than the second division of the stells a symbion than the second division of the second d installs a spanking new electronic system at the end of the year. Meanwhile, the calls for international agreement on systems that work even faster than the best existing ones are whistling in the wind. London cannot even agree with itself, its chances of agreeing with the rest of the world are remote indeed.

#### **Socialists** gain ground in French elections

FRANCE'S ruling socialist party gained ground in yester-day's second round of munici-pal elections, winning back over two thirds of the major towns it lost to the right in

1983, Strasbourg and Mulhouse in the east of France, and Quimper in the west, were won by socialist candidates, although ecologist candidates had been expected to take away votes from the left. In Strasbourg, Mrs Catherine Trantmann hecomes the first woman mayor of a major French city. Mr Michei Delebarre, the

transport minister, won an unexpected success at Dun-kirk, defeating a right wing mayor with 23 years in office.
Estimates by the Ipos polling institute gave the socialists victory in 78 towns of over 30,000 inhabitants, 12 more than in 1963. The communist

the board in Lyon, France's second most important city, and its leader, Mr Jacques Chirac, was estimated to have repeated his 1983 clean sweep of Paris'e 20 districts.

# Lockerbie data not sent until after crash

By Michael Cassell, Political Correspondent, in London

MR PAUL CHANNON, the UK Transport Secretary, will today face renewed pressure to make a Commons statement on his department's handling of bomb warnings which preceded the Lockettle air disaster.

The problems facing Mr Changon and the Covernment

Channon and the Government intensified last night when the admitted that the December 19 letter describing the type of bomb that destroyed the Pan Am sirilner was not posted until the new year – after the December 21 disaster.

A department official said the latter was not sent out to airlines immediately because accompanying colour photo-graphs of a suspect radio cas-sette had to be prepared. Previously it had been thought that the letter had been held up in the Christmas post.

However, Mr Channon looks unlikely to bow to demands for an early, further explanation of events, in spite of repeated claims by Mr John Prescott, party won 48 towns, 5 less than six years ago. The RPR, however, swept Labour transport spokesman, of a government cover-up, and renewed calls for a full public inquiry into the affair. Last night's disclosure fol-

Department's role in evaluating and circulating warnings of a possible terrorist bombing. It was also announced that Mr Samuel Skinner, US Secre-tary for Transportation, is sending a team to London and Frankfurt to help investiga-tors, a decision said to reflect concern at the inquiry's progs, though Mr Channon said the move was very welcome. Yesterday Mr Channon was criticised after his assertion last week that the December 19

because recent meetings of the Congress have shown signs of

Congress have shown signs of independent debate and demo-cratic decision-making.

During the first session of the Congress last year, there were, for the first time, a significant number of negative ballots when deputies cast their water to confirm the nero

their votes to confirm the par-

ty's nominess for senior gov-

ernment posts, as well as criti-cism over social issues such as the low salaries paid to intel-

But hy advising the national

media against running "nega-tive stories", and warning reporters who breach the new censorship guidelines that they

will have to answer to the par-

will have to answer to the par-ty's propaganda department, the Government has tried to prevent any criticism before it happens.

letter, previously said by his department to have been issued two days before the crash, was "of no importance whatsoever." He said all relevant information was in a message telexed on November 22. Earther yesterday, the Transport Department and Downing Street had made clear their belief that any further disclosure of events surrounding the treatment of the security warnings distributed to airlines and airports could jeopardise crimi-nal investigations of the bomb-

There was mounting government anger at the repeated attacks on Mr Channon and his department. Mr Channon rejected Labour claims that he had misled Parliament.

#### UK, Bonn in rift over **Tornado** credit

By David White, Defence Correspondent, in London

THE BRITISH Prime Minister's office confirmed yesterday that Mrs Margaret Thatcher com-plained to Chancellor Helmut Kohl of West Germany last October about Bonn's refusa to provide state-backed credit for the sale of jointly-produced Tornado combat aircraft to Jor-

Mrs Thatcher said in a letter to Mr Kohl that she was disap-pointed with the decision and that in future she would find it difficult to accept credit surangements in which Britain took more than its share. However, the West German

share of credit finance for the £500m (\$850m) sale is now being provided by German banks under an arrangement announced in January with a consortium led by the Bayarian State Bank.

An earlier plan by the Bonn Finance Ministry to involve the state-owned Kreditanstalt für Wiederambau was dropped after an outcry in West Ger-many over whether the coun-try should participate in arms supplies to war somes.

# Georgians stage show of resilience

Continued from Page 1

women and broke it up.
There was screaming and several people fell, although no-one was hurt. Part of the crowd was quickly able to re-form by the Opera door, chanting slogans. Several cordons of police blocked their way into the bulkling.
At this point, there was apparent uproar inside the Opera House. Sitting in the Opera House. Sitting in the Ornate boxes and stalls seats, the Rustaveli delegates had been able to hear the violence outside and several rushed to windows to see the chaos in the street.

A large number of delegates

A large number of delegates were apparently up on their fact in the Opera stalls, insist-ing that they could not con-tinue with the conference until the militia had withdrawn and had allowed the street demonstration to go on.
In the face of protests from all sides, Mr Shadiri had no

lowed weekend reports raising doubts of the Transport

choice but to call his men away. He was later obliged to mount the conference platform and apologise for the behaviour of his men. He was jeered by Georgia's glitterati.

However, the collaboration between official and unefficial Georgians had only just

begun. The Rustaveli society's main task was to elect a new president. One of the three candidates, Mr Aki Bakhradze, is the only member of the Georgian Communist Party who is supported by the unofficial groups. Part of the purpose of

WORLD WEATHER

their demonstration was to show support for their man in the Congress.
Mr Bakhradze's message is

unmistakeable. He calls for substantial sovereignty for all Republics of the Soviet union, a national army for Georgia, a a national army for Georgia, a Georgian National Bank, and an independent police force.

Apart from standing for the presidency of the Rustaveli Society, he is also a candidate for a National Territorial seat in Georgia, in next week's elections to the Congress of People's Deputies.

Dissidents say that his is the only election programme in the Georgian Republic that has never been published

has never been published However, the enigmatic Mr Bakhradze is also a loyal party

man, who commands support among middle-ranking mem-hers of the Georgian party. His frank criticism of the way the Communist Party leadership runs Georgia appeals to them. To the astonishment of many both inside and outside the conference, Mr Bakhradze was elected president of the Society gainst two other people, described by several dissidents as "the Kremlin men". dents as "the Kremlin men". The largest organisation in Georgia outside the Party, which was originally set up to support moderate nationalist goals, now has a fleroely separatist leader.

When news of his election came through to the demonstrators outside, they were jubilant.

# Yeltsin supporters march

Continued from Page 1

tide of popular support for Mr
Yeltsin, possibly enhanced by
the obvious hostility of the
Communist Party leadership.
He is widely expected to win
the race for election in the
national-territorial constituency which covers the city of
Moscow. His only rival is Mr
Yevgeny Brakov, head of the
city's huge Zil vehicle factory.
Voting is on March 26.
The rally began in Gorky
Park where some 3,000 people
turned out for a pro-Yeltsin
meeting only to find it banned
by the city council, Mossoviet,

by the city council, Mossoviet,

at the last minute.

Instead, the crowd marched around the city centre and down the main shopping street, Kalinin Prospekt, urging "come and join us" to Sunday strollers, many of whom did so as the march gathered supporters.

gathered supporters.
Buses of military police appeared in the path of the demonstrators, but made no attempt to stop the unsanc-tioned protest. When they reached the city council, they chanted "Hands off Yeltsin," and "Down with Ligachey."

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**SECTION III** 



The Jugnauth Government is facing the problems of success: pollution, a labour shortage and

a leap in inflation, its ambitious plans must overcome the island's lack of skills and sustain growth. And there is talk of new political alignments, writes Michael Holman

# The lion that stops at four

that the task of managing suc-cess and sustaining economic growth is as demanding as the aplementation of a recovery programme which has seen real growth in GDP average over 6 per cent during the past

six years.

A labour shortage, a leap in inflation from under 2 per cent a year ago to around 15 per cent, a slow rate of diversification of the taxtilla-dominated industrial, sector, and serious environmental follution are a challenging combination. Some of the problems are a

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The boom of recent years has created near full employment. But it has left the agriculture sector, where sugar production remains the mainstay of the economy, short of workers. The labour shortage is exacerbated by another

is exacerbated by another achievement - the fall in population increase to under I per cent a year, or just over replacement level.

Pollution is largely attributable to the difficulty the infrastructure has in keeping up with a terried boom and the with a tourist boom and the rapid growth in textiles, outpa-cing the island's capacity to cope with waste and dye effu-

The answer, says the Gov-

MAURITIUS IS discovering exament of Sir Anerood Jug-that the task of managing suction, mechanisation, an environmental programme and implementing new initiatives, such as offshore banking, a stock exchange and encourag-ing suppliers to use the island as a gigantic duty-free ware-house for their markets in Africa and the Middle East. But making the transition to an Indian Ocean Singapore or Taiwan raises fundamental questions, says .Mr Vishnu

Lutchmeenaraidoo, Minister of Finance and one of the architects of the Mauritian success . "Are we prepared to strike a belance between the needs for growth and the quality of life? he maks. But there are other

Mauritius has many educated people but not nearly enough skilled people," observes one husinessman. Limited expertise, whether the sort needed for a stock exchange or a move into high technology industries, is in short supply. Government training schemes have lagged behind the ideas for the future. The oft-heard references to

Singapore, at the heart of booming Asia, may reflect unrealistic ambitions for an sland which has alling Africa in its backyard.



emjoying the benefits of what they call a "welfare state" — a description which sounds

incongruous given their enthn-

siastic esponsal of a free enter-prise, market-dominated econ-

A civil service which starts work at nine, takes an hour for lunch, and but for a few senior officials disappears promptly at four, falls short of providing its share of the thrust needed to put Mauritius in the Newly industrialised Country cate-

If Singapore and Taiwan are the Asian tigers, Mauritius is still a pussy cat. But by com-parison with Africa (Mauritius is a member of the Organisation of African Unity) the Indian Ocean island has grown into a veritable lion.

Ten years ago Mauritius was in dire straits. The economy m dre strais. In eccounty was hit by low sugar prices on the world market, high inflation, rising unemployment, and was holding the Mauritian Rupee at an unrealistically

high level. In 1982 the Mouvement Militant Mauricien, at the time led by Mr Anerood Jugnauth (later knighted), took the IMF medicine. It was administered by Mr Paul Berenger, then Finance Minister.

The two men were soon to part company. Sir Anerood left the MMM, but retained the premiership and formed his own party, the Mouvement Social-iste Mauricien (MSM). Mr Berenger today is the secretary general of the MMM, led by Dr

Preb Nababsing, and claims with some justice - to deserve part of the credit for what fol-

Under successive IMF programmes, supported by the World Bank, the Government devalued the rupes, liberalised trade, lifted price controls, cut subsidies, offered substantial foreign investment incentives linked to the creation of an Export Processing Zone, and maintained the rupee and labour costs at levels which kept Mauritins competitive on the world market. The policies brought dramatic results.

After a slow initial start, the prescription took effect. In the four years 1984-87, real GDP growth exceeded 25 per cent, almost doubling per capita income in current terms. Mauritius is now in the category of middle-income country, with GDP per capita at \$1,600, and the island's 1.1m inhabitants

Education (including university) is free, as are the health services. Citizens have an unemployment and social security safety net and old age pen-sions. Nearly every household

has a television; most have a video machine. Nearly every yardstick indi-cates progress. The debt ser-

vice ratio, which peaked at 27 per cent in 1984, has fallen to around 10 per cent (last year the Government made earlier than scheduled repayments of \$35m of Eurodollar loans negotiated in the control of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated in the centre of \$25m of Eurodollar loans negotiated and \$25m of Eurodollar tiated in the early 1980a). Although the budget deficit has risen slightly in the last financial year, it is still being

.720 sq miles Population growth rate . GDP (factor cost) (1968) S1 - Mauritian Roma

held to around 2.5 per cent of

Given this record, the Government might be forgiven if it was inclined to sit on its lau-

But the warning of the chal-lenges that lie ahead comes from Mr Lutchmeenaraidoo

Reviewing the country's achievements in the course of the budget address last June he went on: "Our task now is more difficult" - maintaining full employment, sustaining growth but keeping inflation under control, implementing further improvements in living

The strategy adopted — diversification and mechanisa-tion — is endorsed by most observers. The labour shortage is forcing the textile sector to introduce more sophisticated equipment, which also allows the industry to respond more quickly to changing market demands. Diversification within the Export Processing Zone, where attractive foreign investment terms turned Manritins into one of the world's largest exporters of garments, has been given priority. New growth areas include leather, jewellery and a modestly suc-cessful attempt to attract high technology industries.

A host of incentives is stimulating mechanisation in agri-culture. Inflation is being tacked with a combination of fiscal and monetary measures. On the environmental front

one of the most serious challenges faced by a country where tourism is one of the three main foreign exchange earners and sources of employment - the Government is taking somewhat helated action. A \$93m five-year programme, backed by the World Bank and other donors, was drawn up in January. The Government is also

embarking on an overdue reap-praisal of its tourism policy. The target of 400,000 visitors a year by the end of the century is now seen as arbitrary. Issues such as infrastructural capacity, and the impact of mass tourism on the island and the slanders' way of life, are being given more attention

Nevertheless, it is difficult to avoid the impression that an administration which won a further five-year term in August 1987 is sometimes distracted from the task of implementing its economic blueprint and consolidating its achieve-

This may largely be due to the fact that Sir Anerood last year lost a junior pertner in

#### CONTENTS

South Africa: Unks denied omy: transition to a skills-intensive stategy Development Plan: prok fall short of targets

Textiles: search for nicher Regional financial centre: offshore banking pittalls. Stock market incentives may be enough Trade: exports lag imports stry: capital-intensive shif

MAP shortage Tourism: rethink under way Horticultural exports: bearing fruil BUSINESS GUIDE

☐ Picture shows Port Louis, the

his MSM-led coalition. Providing he retains the support of Sir Satcam Boolell, leader of the Labour Party, the Prime Minister's majority in the House of Assembly is safe. But a further factor is the resurfac ing of a drug scandal which began in 1985 and in which six senior members of Sir Ancrood's party were involve

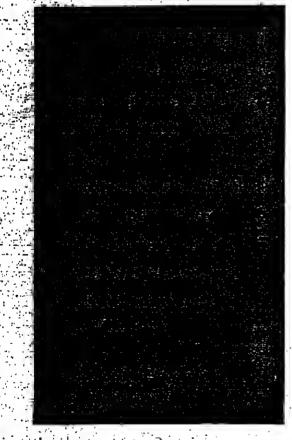
The result is constant talk of new alignments, coalitions and shifting party loyalties. It is a mark of Mauritius's vibrant multi-party democracy but it may also lead to weak

government management. Perhaps the most noticeable area of government uncertainty involves the environ-ment, subject of a disquicting World Bank report. Mr Lutchmeenaraidoo and Mr Michael Glover, the recently appointed Minister of Tourism, stress the urgency of remedial measures advocated in the report. Yet it seems clear that some scnior ministers and officials remain

The electioneering nevertheless reinforces rather than strengths; its political stability. Party differences appear to have more to do with personaltitles or ethnic backgrounds than with fundamental policy divergences. The MMM, for example, would reduce trade ties with South Africa, but does not intend to change the

basic economic strategy. If in the months to come the electioneering becomes more intense, the well-established axiom of island life will doubtless hold good; when under stress Mauritians look to coalitions and consensus.

It will stand Mauritius in good stead as the country, just after marking its 21st anniversary of independence, seeks to consolidate success and explore new areas of growth.



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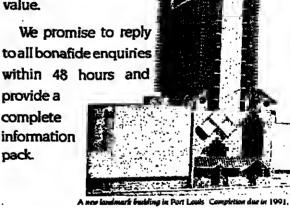
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Michael Holman, Africa Editor, talks to Sir Anerood Jugnauth, the Prime Minister

# 'How we can sustain growth and a vibrant democracy'

miracle" endangered by infla-tion approaching 15 per cent, labour shortages in some sec-tors and the slow rate of diversification in the Export Pro-cessing Zone, still dominated

The Prime Minister: There is no danger, because we are addressing these issues. Inflaandressing these issues. Infar-tion is due to excess liquidity, wage increases and a certain amount of overheating of a very dynamic economy. GDP real growth has averaged 7 per cent between 1983 and 1988. The labour shortage is encouraging greater mechanisation and computerisation in the textile sector, which we want to consolidate, and we are running a more intensive training a programme to cates for disease. programme to cater for diversi-fication into a range of activi-ties from leatherwork to jeweilery and technology.

What are your targets for the next five years? Sustain economic growth and maintain our vibrant democracy. The creation of off-shore banking and a stock exchange are priorities. And we will emphasise new tech-nology, investment and train-

Why is it taking so long to establish a stock exchange and to introduce offshore banking? They are not easy to set up, it involves very technical mat-ters. And offshore banking has dangers - we want to scrutin-ise the banks, and get the right

The new development plan sets admirable objectives, but it is not always clear how you

We set targets but we need flexibility. Past experience has shown that it is very difficult to go along in a prescribed way. We may need to change priorities, so we like to keep

"WE ARE the victims of our own success," Mauritian busi-ness leaders like to say when explaining the need for a

nomic miracle has run up against labour and infrastruc-

forced a reappraisal of develop-

tal-intensive export platform.

per cent, means real living

With that track record, the Government might be forgiven

for lapsing into complacency but such is the fragility both of Mauritian political alliances

and the export platform model

of economic growth exploited so successfully since 1983, that no such respite is possible.

For many Third World critics of the World Bank and IMF,

ics of the world sank and law, the Mauritius success story is a constant reminder that much-derided structural adjustment strategies will work when implemented efficiently. It implies, to the intense irritation of many Africans

can governments, in particu-lar, that the blame for their economic failures rests with them rather than with the

change in policy direction.
After five years of rapid growth, the Mauritian eco-



Sir Anerood Jugnauth

How serious a threat is pol-We are deeply concerned, but the situation is not critical. It is under control. There has been some degradation, I acknowledge that, but we have taken some steps - stopped the removal of coral, for exame, and new botels must have (effluent) treatment plants. With support from the World Bank and 30 international organisations we have prepared a \$90m conservation package. I am fully aware that

"We are concerned about pollution, but the situation is under control. Our first priority is to preserve the environment"

the first and foremost resource is our island and the environnt, and our first priority is to preserve it.

What are the prospects for improving the textile and

kets - the European Commu-nity and the United States. On agressive marketing policy, selling more sophisticated goods — and a wider range — in more countries. The Sugar Protocol which gives us a European quota of more than 500,000 tons is not in jeopardy, but there has not been as the but there has not been a sub-stantial increases in prices offered by the European Com-

munity for years. Do you envisage a decline in tourist and trade relations with South Africa? Let me set things straight. Our economic enccess has nothing to do with South Africa in terms of technology transfer or investment, which is negligible in most sectors. We abhor apartheid. But we cannot sever our trade links without jeopardising our economy. We are doing our best, however, to reduce our depen-dency, be it in terms of imports

or the number of tourists Corruption appears to be on the increase in Mauritius. This country is not pure .none is. We are trying to eliminate it, but it's not easy sometimes temptation is so strong. But I would not say there is more corruption, that's an impression created by the opposition for political reasons. Do you feel uncomfortable having your face on the new Mauritian gold coin, on the

No. Otherwise I would not have allowed it.

Isn't there a danger of a personality cult? Should not such things be shove party politics and party personalities? No, we don't think so. This takes place everywhere. I don't see why I should be ashamed.

500 Rupees note, having a marine esplanade named after

**POLITICS** 

# Shifting alliances

deceptive in Mauritius's vigor-

neceptive in mauritus's vigorous multi-party democracy.

At the August 1987 general election the alliance led by Sir Anerood Jugnauth's Mouvement Socialiste Mauricien (MSM) won what seemed a convincing victory, securing 39 of the 60 legislative assembly seats on the main island. (Rod-rigues, a small island 350 miles bers). But the outcome was far

closer than the first-past-the-post system would suggest. The opposition coalition led by Dr Prem Nababsing, the Mouvement Militant Mauricien (MMM), which won 21 seats, secured 48.1 per cent of the votes cast, only a few thousand less than the 49.8 per cent won by the MSM. Looking back, reversible 19.5 per cent won by the MSM. Looking back, reversible 19.5 per cent won by the MSM. Looking back, reversible 19.5 per cent won the seat of the government ministere acknowledge that their main campaign asset - the island's remarkable economic growth was undermined by a long-running drug scandal in which several members of the alli-

ance were implicated.
In the meantime, a key mem-In the meantime, a key member of the alliance has parted company with the Prime Minister. Last August, Sir Gaetan Daval, leader of the Parti Mauricien Social-Democrat (PMSD), which holds five seats, left the Government after a dispute over labour policies. This has left Sir Anerood's Government dependent on the support of Sir Satcam Boolell's Labour

Party (11 seats).

A further element in the complex picture is Mr Harish Boodhoo, a veteran politicism who at one stage was a senior member of the MSM. Last July he revived the party he led until its dissolution in 1983, the Partie Socialiste Mauricien

Throw in the fact that the economic boom has eased off and inflation is running at 15 per cent, and the revival of past scandals have by the recent arrest in Louisian of the former like Commissioner of former High Commissioner of Mauritius, allegedly implicated in drug offences, and Sir Jugnauth's minority government looks to be in some difficulty. That at least is the view of Dr Prem Nababsing and Mr Paul Berenger, secretary gen-



Prem Nababeling: "the Prime Minister is on a tightrope"

eral of the MMM.

"The Prime Minister is walk-ing on a tightrope," says Dr Nababsing. "If the Labour Party thinks the alliance won't win the next election, it will want to get out. It's keeping its options wide open." Past experience, however,

show that almost any combina-tion of parties is possible. Would Dr Nababsing form a coalition with Sir Anerood? "Working with the Prime Minister is not completely ruled out, but as days go by it gets less probable," says the MMM leader. "Sir Anerood has said he won't work with Paul Ber-enger, and we will not accept that."

Mr Berenger himself has mellowed since his student leader days in Parls in May 1968. When the Jugnauth-led alliance of the Parti Socialiste Mauriclen and the MMM swept to power in 1982, Mr Berenger became Finance Minister. He immediately set about negotiating an International Monetary Fund agreement - a move which jeopardised his trade

With some justification, he argues that he laid the foundations for the Mauritian economic recovery. Mr Berenger is an engaging and articulate man who nevertheless is regarded by his peers as a somewhat difficult colleague. He soon parted with Mr Jug-nauth (later knighted) and the latter formed the MSM and

kept the premiership.

Mr Berenger, whose popularity among working-class Mauritians is matched by the antagonism he arouses in some quarters of the business community, also raises the possibility of a broad-based front — "even winning over some members of the MSM."

"The Government is very fragile," asserts Mr Berenger: "The economic hoom has peaked, inflation is approach-ing 15 per cent, job creation now is running at 4,000 a year against 12,000 school-leavers each year, corruption is terri-ble and the environment is a fundamental problem."

"For five years the Govern-ment has done nothing in this field. It's finally woken up to the environment problem but shows no political will or co-or-

Yet on economic issues, the MMM does not seem to be fun-damentally at odds with the

Government.

Dr Nababaing, who stresses that an MMM government would continue to encourage foreign investment, criticises the slow pace of diversification in the Export Processing Zone, says the Government has lagged behind in its training programmes and maintains programmes, and maintains that the fishing sector has been neglected.

On foreign policy, the differ-ences appear modest. South African tourism will not be stopped, although Dr Nababs ing says trade relations will change: We would end the preferential tariff agreement with Pretoria, and prepare a list of items we would stop importing from South Africa almost overnight - wine and fruit for example."

Everyone on the Mauritian political scene seems to be eping his options open. One factor remains constant. Around 52 per cent of the island's lm people are Hindu, 17 per cent Moslem,

It is no accident that all three main party leaders - Sir Anerood, Dr Nababsing and Sir Satcam - are Hindus. The views of this community remain the key factor in Mauri tian politics.

Michael Holman

#### SOUTH AFRICA

# Links denied

Mauritius is Pretoria's sanc-tions-busting partner, and that investment from South Africa is a major factor in the island's economic boom, surface fre-

The evidence, however, shows otherwise, as government officials point out with

ment cancins point out was increasing asperity.

The most common charge is that South African-made textiles or garments are brought into Mauritius and re-labelled.

This practice – which would be illegal under the island's Export Processing Zone legisla-tion – would not be profitable to the participants, say offi-

"Mauritius is itself a pro-ducer of garments and is much more competitive than South Africa. Thus there would be no economic sense when one also takes into account extra freight costs, says one official. The Government also points out that Mauritius is a small, open society with a vigorous trade union movement which would be the first to blow the whistle if South African exports were being "laun-

dered" in Mauritius.
It acknowledges that a handful of companies - three in the EPZ - import goods from South Africa for re-export. These items are cane loaders and spare parts, pollshed dia-monds and motor car spares. None is on the list of goods which have been subject to internationally agreed embar-goes, and the value was any-way negligible — MRs 6,910,850 — in the year ending April

A second common charge is that South African investment has boosted the development of the Export Processing Zone, which in turn has been the engine of Mauritlus's remarkable growth.

A Government breakdown of investment in the EPZ which is not challenged by opposition parties - shows that local manufacturers accounted for 60 per cent, Hong Kong sources provided 25 per cent, 5 per cent originates from France, while South African investment represents 0.7 per cent. Total investment from South Africa – mainly in

per cent of overall foreign involvement, say Government

The third issue involves trade and tourism. Domestic exports and re-exports to South Africa have fallen from 0.76 per cent of total exports in 1988 to

cent of total exports in list to under 0.5 per cent, while imports have dropped from 3.5 per cent of the total in 1981 to around 8 per cent last year.

It is on this issue that opposition leaders concentrate their fire, arguing that the preferential trade status enjoyed by Pretoria should be abolished. Government officials do not exclude this at some stage, but argue that an overnight change would raise the cost of

Pretoria's preferential trade status is under attack

living significantly, given that some South African imports are consumer staples. Tourist links are the final area of contention. Once again, government officials point to a decline in the South African share of the market - though they stress they are not going to put obstacles in the way of South African visitors. The percentage of tourists has fallen from 22.6 per cent in 1984 to an estimated 15 per cent last year. Numbers, however, have risen, from 25,000 in 1981 to an estimated 38,000. Total visitors from all countries rose from 122,000 to around 270,000 over

the same period. Sir Anerood Juganuth, the Prime Minister, has given vent to his irritation over what he called "a systematic campaign of disinformation about Mauriof manormator about matter tius and her links with South Africa." Speaking at the UN last October, he blamed "jeal-ous rivals unable to emulate the Mauritian miracle." He went to "set the record straight," as he put it but it remains to be seen whether he has managed to dispel the per-sistent allegations.

Michael Holman

The island needs to make the transition to a more skills-intensive economy, writes Tony Hawkins

# The only way that the economic miracle can avoid running out of steam

#### ment strategy. Hitherto, job-generation and GDP per head export growth had top priority, but it is now time to make the Thousand rupees (1982 prices) difficult, challenging switch to a higher technology, more capi-By any yardstick, economic performance over the past five years has been impressive, though whether the island has the capacity today to make the transition to a more skills-intensive economy is problem-Since the reform package of the early 1980s, real Gross Domestic Product has grown at 7 per cent a year which, with population growth of only 1

standards have risen by a third money while inside traders since 1983. An estimated 90,000 jobs have been created, reducwill exploit the stock ing the unemployment rate to Prior exponents of export less than 5 per cent from 23 per cent 10 years ago. Indeed, what platform development - nota-bly the Asian Tigers - have little unemployment there is fits into the fictional category, illustrated the necessity of flexible and timely adjustment to rapidly-changing world market conditions. Mauritius, too, with its very open export-oriented economy has to keep moving, which is a traction to and labour scarcity is not only one of the major constraints on growth but also a key factor influencing the recent shift in policy.

The budget deficit was cut from 14 per cent of GDP in 1982 to 1 per cent last year, inflation has fallen from a peak of 42 per cent to average 5 per cent since switching its etrategy to exploit market opportunities as they arise. The immediate chal-lenge is that of following the Japanese, Singapore and South Korea in moving upmarket into a more skills-intensive and 1983, import controls have been abolished, the tax rate halved and price controls dropped.

Domestically, Mauritius has

Real GDP Percentage growth rate

reached the end of the labourintensive development road with only 10,000 to 12,000 jobseekers coming forward each year, while there are also phys-ical limitations in terms of infrastructure and the environment. Heavy dependence on relatively low value added textiles – the sector is responsi-ble for almost 50 per cent of exports – has engendered a sense of vulnerability to adverse world market develop-ments, such as US and Canadian onotas on textile and clothing imports from Mauxi-tius, especially as exports are concentrated in two main mar-kets (France which takes 37 service-oriented economy — a transition dictated by changing market conditions at home and per cent and the US 25 per

The recent shake-out in the textile sector and the closure of

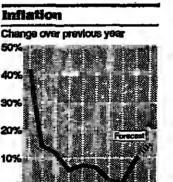
has underscored the need for industrial restructuring. The Government believes that this should take place without any official intervention, arguing that retrenched workers have quickly been re-engaged by expanding firms.

Even so, it is clear that the Export Processing Zone is losing momentum with growth forecast to slow to 15 per cent this year and 12 per cent in 1990 from an experience of 55 per cent.

1990 from an average of 25 per cent over the past three years. International competition has increased, the knitwear sector has experienced three years of slnggish demand while changed buyer behaviour in the clothing market dictates shorter production runs, faster response times and, above all, improved design and quality. Mauritins will build market share under such conditions only by deepening its skills base, investing heavily in base, investing neavity in state-of-the-art equipment and consolidating its factories into larger, vertically-integrated units. Such a process is under way, but it has been left very late, especially on the training

Alongside this shift in industrial strategy is the thrust towards service-sector develop-ment, reflected in the launch of offshore hanking, the establishment of the stock market, the plans to establish Port Louis as

a free port and to develop the



1980 82 84 86 8888

island as an entrepot centre. A third string to the strategy bow is that of both industrial and agricultural diversification. On the industrial side, leather goods, footwear, jewel-lery, furniture, printing and the film industry are seen as areas where the island can develop comparative advan-tage. The local assembly of electronic appliances, such as TVs and videos, allied with local component manufacture, is part of a longer-run strategy

due to start soon. With sugar output on a pla-teau of 650,000 to 700,000 tonnes a year - little changed from the average of 665,000 tonnes

to develop competitiveness in this field. Computer software and informatics are high on

the list too with two ventures

during the 1985-88 period -further agricultural diversification is essential and to that end a battery of new incentives was provided in the 1988 bud-get. The tight labour market points to increased mechanisa-tion and consolidation of plots into larger units. In the 1988-90 development plan, agricul-ture's share of GDP is forecast to decline from 15 to 12 per cent, leaving manufacturing to maintain and even intensify its role as the engine of growth.

Four main constraints are evident - the shortage of labour (and specifically skilled labour); adverse world market conditions, especially for tex-tiles and possibly also for sugar, infrastructure and physical limitations such as the ical limitations such as the constraints imposed on tour-ism by the lack of more beaches and on industrial development by the shortage of factory accommodation; and

nomic growth does not further endanger the environment.
Fortunately, the financial environment is favourable. The balance of payments is forecast to remain in modest surplus, rapid import growth notwithstanding; foreign exchange reserves cover 17 weeks of imports, while the debt service ratio is down to less than 10 per cent of exports (from 29 per cent in 1985) and the ratio of foreign debt to GDP has failen

the need to ensure that eco-

some \$35m of Euromarket borrowings were repaid prema-turely to reduce foreign debt and improve the island'e international credit rating.

from 55 per cent four years ago

to 30 per cent. Indeed, last year

Fiscal policy is a remarkable advertisement for supply-side economics. Although tax rates were halved in 1984, the ratio of tax revenue to GDP has actually risen to 23 from 20 per

BALANCE OF PAYMENTS				
1967	1989	1986*		
12.0	14.0	15.3		
13.0		17.3		
-1.0		-2.0		
1.8	2.5	2.9		
-0.6		-1.2		
		0.8		
		0.5		
		0.5		
2.8	1.3	0.5		
	1967 12.0 13.0 -1.0 1.8 -0.6 0.8 1.0 1.8	1907 1988 12.0 14.0 13.0 16.3 -1.0 -2.3 1.8 2.5 -0.6 -0.8 0.8 0.7 1.0 0.1 1.8 1.2		

#### NATIONAL DEVELOPMENT PLAN

# Action may fall short of targets

Fifth National Development Plan, for 1988-90, envisages public sector invest-ment of some MRs 10.7bn ment of some silks 10.7bn (US\$750m) during the three-year period to June 1990. The plan projects real GDP growth of 6 per cent annually with the bulk of the new investment — 70 per cent of the total — emanating from the private spectra whose spending along emanating from the private sector, whose spending plans are not included in the development plan, which covers public investment only, writes Tony Hawkins.

The main thrust is the attainment of "continuing growth with equity" emphasis.

attainment of "continuing growth with equity", emphasising improvements in the quality of life. The two major sectoral targete are telecommunications where 18.5 per cent of public investment is to be spent and agriculture and fisheries (12 per cent). A further 26 per cent is earmarked for "other" capital pro-

jects, ranging from the re-equipment and renewal of gov-ernment vehicles to develop-ment of the Mauritius Broad-

Infrastructural investment (excluding telecommunications) will absorb 30 per cent of the total, while social projects will receive only 6 per cent. It is difficult to recoocile the Government's emphasis on manuscripts of the cook of t manpower training with the pairry 1.7 per cent earmarked for this purpose during the plan period.

The foreign exchange element in the programme is estimated at \$440m or almost 60 per cent of the total. Mauritius has already raised 40 per cent of the total cost of the programme including 28 per cent gramme, including 28 per cent of the foreign component. It needs to raise a further \$440m. including \$320m to meet foreign exchange costs, during

\$260m to fund projects whose implementation will extend Mauritian fiscal manage-

ment is cautiously conserva-tive to the point where the plan projects underspending of some 10 per cent between now and 1990. The recent surge in inflation and the need to curb government spending suggest that actual project implementa-tion will fall short of the ambitious targets, but monetary expenditure could well over-

Financing seems unlikely to

be a problem, given the high domestic savings ratio (25 per cent), the decline in both the foreign debt and the debt-ser-vice ratio — down to 12 per cent in 1987 from 27 per cent three years earlier and the country's much interpretacountry's much-improved international credit standing. Bottlenecks are more likely to arise on the implementation than on the financing side.

Tony Hawkins

dajor projects in the three-year development plan (198 orthern Plains Irrigation Project (Stage II)	18-90) are:
ncage-Guibes Dam 200 Hydro-Power Protect	49E-
elecommunications Development Programme	\$113p
ower Transmission and Distribution	\$34 <u>0</u> \$250
ynangion of Thermal Generating Canacity	804-
enewal of Radio and Navigational Alds	\$11b
Tribo Transmitter	married (COL)

cent in the bad old days of 70 per cent corporate and per-

Even with the burden imposed by the Chesworth pay awards and the 50 per cent increase in civil service earn-ings, the wage bill, at 9 per cent of GDP, is lower than in the early 1980s, and the fore-cast increase in the budget deficit to 2.5 per cent in 1989 from 1 per cent last year is not a serious problem given the Government's ability to finance it from non-bank borrowing via its Treasury Bonds that yield 15 per cent tax-free.

High domestic savings ratios averaging 27 per cent in recent years - have been a crucial ingredient of economic success. Since 1985, private sector investment has averaged 17 per cent of GDP while the pub-lic sector invested an additional 9 per cent

Foreign investment plays a relatively minor role — few major multinationals operate on the island, though Dunlop is contemplating a footwear project – with net inflows averaging a mere \$13m a year in the past five years, Industri-alists believe it will increase when the "one-stop investment shop" is established, simplifying the present process of 36 different steps involving 23 government agencies.

The central threat to successful export platform devel-opment lies in international competitiveness - the rela-tionship linking inflation, exchange rates, productivity and quality. When export plat-forms lose their competitive edge, growth stops dead in its tracks. Official inflation esti-mates, which almost certainly understate the real rate of understate the real rate on price rises, point to 15 per cent inflation by mid-1989, slowing in the latter half of the year. While this may be offset by exchange rate depreciation— the real effective rate for the

rupee has depreciated some 4 per cent a year since 1985 -there are also adverse knock-on effects in the form of

knock-on effects in the form of higher import prices. Productivity will improve only if technical training, neglected until now, can achieve quick results on the factory floor and if the skills base can cope with higher tech-nology capital equipment. It is vital, too, to devote more resources to quality, especially

vital, too, to devote more resources to quality, especially in textiles.

Provided the difficult transition can be made, growth of 4 to 5 per cent a year is familied during the 1990s, during shifts the island will programs smoothly towards its post of the much-vaunted negly industrialising country (1997) status.

"If we don't make the trible tion, develop skills, moderate our factories and diversity our economy," warns Mr. Leist, meenaraidoo, the architect. the present strategy his Mauritian model of according development will run out of steam.

alleged inherent shortcomings of the reform packages them-selves. More galling still is the Mauritian record of social progress that contrasts so starkly with social failure in most of Africa.

But on the home front too,
Mr Vishna Lutchmeenarsidoo, Finance Minister, complains with some tustification — that when he launches imaginative new projects, such as offshore banking and the stock market, the political opposition is quick to accentuate the negative, claiming that offshore banks will be used to launder drug

ator. 414

THE WARRY

Pretoria's pretoriate trade states

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# A belated response on pollution

polintion ... only virgin beaches embraced by coral reefs and translucent sea lagoons," declares a holiday brochure extolling the merits of Mauritius.

Alas, it is not quite true. The island does indeed have island does indeed have delightful stretches of clean sand and crystal-clear water, enjoyed last year by 245,000 tourists. But the combination of inadequate sewage facilities, effluent from textile plants, over-use of fertilisers and pesticides and waste from the cidee, and waste from the sugar industry is causing envi-ronmental damage and threat-ening marine life.

"We are deeply concerned by

pollution," says Sir Anerood Jugnauth, the Prime Minister, adding that the Government is

taking action.

First steps include the establishment of an environment commission, en immediate ing activities such as "mining" lagoon coral, and setting in train a major overhaul of legis-lation. In mid-year a national environmental campaign will be launched which is designed to create an awareness and sense of urgency that are cur-

rently lacking. The groundwork for major longer-term development was-laid in Paris last January when donors at a World Bank sponsored conference pledged \$93 for an environmental protection programme to be put into effect over the next five years. A British firm of consultants has been given the specific responsibility of drawing np plans to tackle the worst-hit

area in the north of the island.
"The situation is under control," says Sir Anerood.
Many would disagree, however, including hoteliars who fear that years of neglect are taking their toll, that the Government's respective is believed. ernment's response is belated, and that senior officials have

failed to grasp the depth and urgency of a challenge starkly set out in a recent World Bank report which formed the basis for the Paris discussions.

The seas and lagoons around Mauritius are "the ultimate sink" for most pollution created on the island, says the 100-page study. The precise extent of the damage to date is

A national campaign will be launched to create the sense of urgency that is lacking

difficult to evaluate, partly because Mauritius has lacked adequate testing and monitor-

anequate testing and monthlying facilities. Nevertheless, enumples raised in the report are disquicting.

Three pipelines in the Post Louis area discharge largest universed sewage into the seat "Much floating sewage was seen to travel along the coast and part of it ends up from time to time in the lagoon of the holiday resort at Flic en Flac." on the west coast. "Ear infections incurred by

swimmers and inflammation of minor cuts and bruises have been reported in this area," the

ister of Housing and Environ-ment, disputes the report: "As matters stand, there is no prob-lem," adding that nor was there a pollution problem in

Seepage of insufficiently decomposed sewage from septic and infiltration tanks situated too close to the sea is affecting one of the most pop-ular tourist beaches on the ular tourist beaches on the island," warns the study, noting: "Sand along the waterline... has been observed to be badly contaminated with seepage from an infiltration tank. The sand was grey, anaerobic and stinking of hydrogen sulphids over a length of about 100 metres."

100 metres. In the Grande Bale area in the north, where many hotels are located, the report says that seepage from unsatisfactorily degraded septic tanks is encouraging the growth of plankton, which turns the water green.

Another concern raised by

Another concern raised by the report is the discharge of raw sewage by visiting yachts in Grande Bais, although there are disposal facilities at the local yacht club.

The Bank team visited three of the four sewage treatment plants operated by the Minis-try of Works: "None ... was believed to be operating prop-erly, because they lacked equipment, spare parts and had difficulty in obtaining ade-quate and timely maintenance repairs," observes the report, which warned that ocean discharge "is polluting the coastal region to an unknown degree."
"I am not aware of this, it is

not correct," says Sir Ramesh. The island's coral is also under attack. About 1 sq km of lagoon coral is being destroyed each year, taken for industrial use — "an unacceptably high figure", states the report, adding that "even on the barrier reefs, coral is extracted with crowbars."

A second major area of con-cern raised by the World Bank study is the high use of fertilis-ers and pesticides. Fertiliser consumption is put at 600kg per hectare - three times higher than in Western Europe. Pesticide application averages 44kg per hectare, "probably the highest in the

Pesticide application averages 44kg per hectare, probably the highest in the world

world," five times the rate of Japan, the second highest user.
The potential consequences, notes the report, include contamination of ground water.
A third critical area is the liquid waste from the textile industry's dye houses - "one of the most serious environmental problems which has accompanied the nation's eco-

nomic success."

At the time the report was being prepared (mid-1988) "virtually no effinent from any dyeing operation is treated properly, or treated at all. Raw effinents are discharged on land creating a public nuisance situation is "and possibly contaminating carries weight."

agnifers: they are also disadulers, they are also un-charged in deep wells (eventu-ally reaching drinking water aquifers) or directly into rivers ... clearly the situation is becoming uncontrollable." The report goes on: "Many dyes are believed to contain chromium or other heavy met-als which are both toxic to aquatic life ... other dyes are carcinogenic and may be affecting the health of dye-

house workers." Some of the larger textile companies have, on their own initiative, begun building treatment plants, and all new com-panies have to meet anti-pollu-tion standards. But smaller factories may be reluctant to embark on what is an expensive exercise, and monitoring remains lax.

When questioned about the report, a senior official in the Ministry of Industry said he did not believe that there was a significant environmental threat posed by dye operations.

The sugar industry also comes in for criticism. Not a single mill in Maurittus treats its affinent waste matern. its effinent wastewaters (which) when discharged into rivers or coastal zone robs them of any oxygen, killing

The Bank report puts forward a comprehensive environmental programme, ranging from new legislation to eubstantial water and sewage treatment projects, for which the Government won financial backing in Paris. But much has now to be done before the Prime Minister's view that the situation is "under control" **TEXTILES** 

# Search for niches

AS GROWTH slows in the Export Processing Zone, in response to both domestic and external influences, so two distinct industrial strategies are being advocated. On the one hand, there are those calling for diversification — into locations received footness invalidations. leather goods, footwear, jewellery, toys and electronics -while on the other are those

while on the other are those advocating vertical integration and an upmarket product strategy within the textile sector.

There is some common ground to the extent that both groups acknowledge that a changed pattern of industrialisation is inevitable and that the present heavy dependence on a broad range of low value-added textiles cannot be austained

indefinitely.

Diversification out of textiles has been an EPZ huzzword for has been an EPZ buzzword for several years now, but to date, little has been achieved. Thus five years ago, non-textile goods accounted for a quarter of EPZ exports, but in 1987-88 this ratio fell below 20 per cent. In 1983, the non-textile sector accounted for 14 per cent of EPZ employment but by last year the share had failen to 9 year the share had fallen to 9 per cent, while the industry's share in EPZ value added has risen from 80 to 88 per cent in

the last six years. Critics of diversification call for a more coherent and focused strategy thet would identify a limited range of industries in which Mauritius might expect to develop competitive advantage. They argue that Mauritius now has a world reputation as a smallscale textile and garment man-ufacturer. The trick in the 1990s is to exploit the skills and expertise it has developed not by a leap into the congrom-erate dark but by moving unmarket within textiles, rely-

ing on scale economies, increased capital intensity and vertical integration to develop a narrower and more sophisticated product line.

"We have to seek out market niches and stop trying to satisfy broad market segments," says one of the island's main textile manufacturers.

Two main influences — one

Two main influences - o external and one domestic external and one domestic have changed the rules of the textile game in Mauritius. First in Mauritius itself supply conditions have changed radically. With the approach of full employment, labour is both costly and hard to find, while labour turnover has increased.

Critics argue that diversification may be a leap in the dark the trick is to move upmarket

Production costs have seared, with wages rising 18 to 20 per cent a year in the past two
years and utility charges have
also increased, while the continuing depreciation of the
rupee has pushed up the cost
of imported inputs. At the same time, there have

been major changes on the demand side. Consumers in the EC and North America, the country's two main export markets, have become more discriminating about quality and less price-conscious. Prod-not life-cycles have shurtmed, as have order lead-times. In this situation flexibility is vital Vertically-integrated producers who can satisfy fastchanging style requirements have thrived. At the lower val-ue-added end of the market,

small operators, many of them

TRADE

sub-confractors, are battling to survive.

In the subsequent shake-out there has been a rish of EPS electures — mainly of poorly managed, under-capitalized, firms — and today the textile sector is in the throat of a restructuring exercise which the Government believes with result in a healthlar and better-balanced textile indusiry. At the same time, recent applications for EPZ certificates show a marked shift away from textiles into jewellery, furniture, printing, footwear (Dunlop is looking, at manufacturing shoes in Mauritus) and the film industry. Electronics remains on the diversification list but after the failures of the early 1970s, the thrust is towards local assembly for the domestic market and the manufacture of components in the belief that this will provide a firmer foundation for export development. The investment in two major new weaving mills, currently under construction, will enhance the degree of vertical under construction, will enhance the degree of vertical integration. The International Finance Corporation has lent \$5m for one weaving mill, Socota Textile Mills, and also has a \$1m equity stake in the project which will produce 7m metres of finished cotton and

polyester fabrics annually. Textiles will continue to dominate Mauritian industry dominate Mauritian industry for the foreseeable future, but develop the next decade a time pronged strategy is likely to develop. Vertical integration and consolidation on the injuduction side, a shift negative into higher value added market niches and, thirdly, continuing afforts to diversity out of tag-tiles altogether.

ent, the balance of trails favours the PTA whose upon to Mauritius of MRs 130s, confectably exceed its imports of

The bulk of PTA trade a with Kenya and Zhuhawe kill trade with these two residents

trade with these two marinals along with Madageseas. Malawi and the Comores can be expected to expand more regions then for of regional markets being undertaken by the Manifold Export. Development, and investment Authority (Medic). The trade can of MRs 2 the

The trade gap of MRs 2.3hn last year is forecast to parrow to MRs 2hn in 1989 as import

growth slows to 6 per cent

from 42 per cent in 1987 and 35 per cent last year. EPZ export growth will also slow to 17 per cent from almost 30 per cent a year in the last three years, but despite this exports are

forecast to expend faster then imports — becreasing 10 per cent in 1989 — for the first time since the early 1980s.

The current account of the

balance of payments was in substantial deficit for a decide

until 1986 when a surplus of MRs 1.25bn was achieved, but this has been groded by rapid

import growth and a marginal

surplus of MRs 100m is esti-mated for 1988. Official fore-casts point to modest current

account surpluses over the next two years, though these will materialise only if import

growth slows dramatically which seems unlikely given

the continuing slide in the rupee, higher inflation interns-

tionally and the strength of the

less than MRs 50m.

Tony Hawkins

Plans to create a regional financial centre

# Offshore bank strategy could face pitfalls

potential pitfails in Mr Vishnu Lutchmeenaraidoo'e strategy for Mauritius as a regional financial centre, with Africa's first offshore banking network. The Finance Minister's plans carry the risks that drug money or South African flight capital will discredit the centre and the possibility that it will fail to attract a meaningful vol-

Mauritius has cauvassed six potential candidates for offshore bank status - Barclays, ing business on the island; the Mauritius Commercial Bank (the island's largest) in tandem with Credit Lyonnais; the Gov-ernment-owned State Bank of Mauritius in partnership with the State Bank of India; the Bank of Baroda: the Banque Nationale de Paris Intercontinentale, which operates an affiliate bank in Mauritius and Malaysia's Sonth Rast Asia Bank, which was licensed to

operate domestically last year. An obvious gap, given the strength of the island's Asian trading links, is the Japanese, though the Bank of Tokyo and Mitsui Bank both figured in early discussions. Nor initially will be there a US, Swiss or West German presence.

The new banking act defines offshore bank as business conducted exclusively with nonresidents, though this includes the EPZ sector, and in freely-convertible currencies. Banks are allowed to hold both domestic and offshore licences if the two types of business are kept completely separate. Off-shore banks must maintain a capital base of at least MRs 25m (\$1.75m) and net free assets (as defined internationally) at a level, which may vary from bank to bank, to be determined by the central bank. Offahore banks are also required to meet liquidity ratios, still to be specified.

The banking legislation has been sharply criticised by Mauritian bankers because they were not consulted and also because they believe that separate bills should have been presented to cover domestic and offshore banking. Despite these criticisms, the six banks to whom application forms have been sent are expected to apply for licences and commence offshore operations by the end of the year. Bankers foresee little diffi-

culty on the lending side, since with domestic credit cellings in operation and most firms, espe-cially those in the EPZ, frequently requiring offshore finance to fund imports and exports, abundant lending opportunities are anticipated Furthermore, low overheads and lower international than and lower international than domestic borrowing costs, should ensure reasonable profitability provided volume targets can be met.

But the deposit side is much more problematic. It is difficult to see African capital — even

to see Arrain Capital — even that from South Africa — seek-ing refuge in Mauritius since other, politically safer, havens are available in Europe, while the failure of Behrain — in the same time zone as Mauritius as an offshore centre is a blow. There is talk of the island being "a financial interface" linking Asia and Africa, but

THERE ARE two major merchandise trading volumes are tiny and opportunities for building a deposit base from such operations are likely to be limited in scope. On the credit side, Mauritius

has excellent international communications, a strong, if narrow, domestic banking system and a track record ir terms of foreign investme t and domestic economic man-agement that international. banks might just find attrac-tive. But the venture is something of a long shot and even the ontimists expect the takeoff to be hesitant and slow.

For the purely domestic banks, the offshore operation is unwelcome because it will increase competition both in the marketplace and for skilled staff. Some of them are going through a difficult time after the successful issue of MRs 300m of 7-year Treasury Bonds carrying interest at 15 per cent tax-free. The bonds were designed to mop up excess market liquidity but this was achieved at the expense of the banks, whose savings deposit

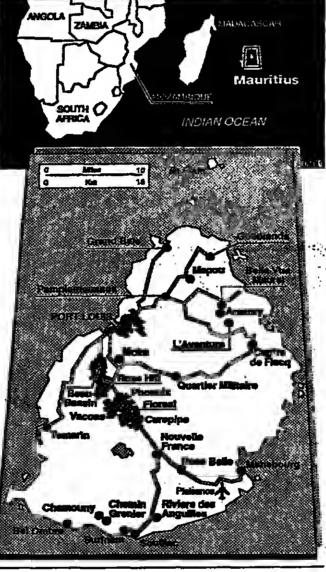
rate was only 8 per cent.

Some banks grudgingly raised their deposit rate to 9 per cent last month, which was in line with the Government's anti-inflation policy and justified also by the rise in inflation to a forecast 15 per cent in the

year to June 1982, Despite this, ministers complain that although interest rates were liberalised last year, the banks are still acting as a tight cartel with little price competition for deposits. The banks say that price leadership is normal any-where in the world and that full liberalisation is incompati-ble with a 20 per cent ceiling on credit to the private sector. · However, with inflation on the rise, the authorities have little choice but to curb credit and push up interest rates. The combination of the external payments surplus and a 50 per cent rise in bank lending to the private sector resulted in a 45 per cent jump in the money supply in the 18 months to December 1988, despite the sharp cutback in government

With arrears from the Chesworth public sector pay award to be funded over the next 15 months, the Government is keen to avoid bank borrowing to finance the increased budget deficit while, at the same time, anxious to limit the inflationary impact on consumer spend-ing of the arrears pay-out. Con-sequently, higher interest rates and credit curbs are likely to remain in place at least for the next two years.

Tony Hawkins



#### STOCK MARKET

# Incentives may not be enough

CAPITAL market development has a high priority in Mauri-tius, evident in the string of eubetantial incentives, announced in the 1988 budget, that are designed to foster

stock market investment. The Port Louis stock market should come on stream in midyear, though many doubt whether it will have the major impact on savings and invest-ment patterns that its sponsors hope it will achieve.

The new stock market will

replace the largely-defunct informal "bourse" that has operated, with minimal turn-over, for 200 years. As part of its ambitious programme to turn Mauritius into a viable regional financial centre, the Government hopes that the stock exchange will attract the savings of institutional and small-scale investors, encour-age major Mauritian compa-nies to list their chares, broaden the spread of share ownership to embrace the Indo-Mauritian majority and, later attract foreign invest-

sion (SEC) has been estab-lished which, with French technical assistance, is drafting regulations for the new mar-ket. To ensure professionalism, het. To ensure professionalism, brokers are now required to pass a qualifying examination and some 24 new brokers have been registered, along with nine of the existing bourse dealers who were exempted

The plan is to insist that the brokers establish dealing companies with a minimum of two irokers in each firm. A trading floor is being built and when the market opens prices will be fixed once daily on the floor. One immediate snag is likely to be the shortage of scrip— with more dealers around than listed companies. Current esti-mates are that, initially, only about 20 firms will be listed on the market. The SEC hopes to alleviate the threatened scrip shortage in three ways - by allowing second-tier quotations with lese rigorous listing requirements, encouraging trading in unlisted securities

lished to enable small savers to participate in the new market. But it is by no means clear that this package of incentives will generate enough investor enthusiasm on the savings side and corporate willingness to list shares on managements' side. Government savings honds already offer a 15 per cent tax-free return, which is unlikely to be matched by equity investment unless very substantial capital growth is on offer. The SEC believes that

There is likely to be a shortage of scrip, with more dealers around than listed companies

(including companies that had been traded on the informal bourse) and dealing in govern-ment securities and Bank of Mauritius bonds. To persuade Mauritians to

participate in the market, 35 per cent of dividends received from quoted companies by an individual will be tax-free. This will be additional to the exist-ing incentives whereby individ-uals do not pay tax on the first \$1,000 of income received in interest and dividends. Companies that obtain a list-Companies that obtain a listing will pay a lower rate of
profit tax — 25 per cent instead
of the official 35 per cent rate.
Stamp duties on new issues of
shares and other securities
have been abolished for quoted
companies along with registration dues on share transfers.
Capital gains and profits of up
to \$7,000 in any one year on
share dealings are also exempt

ahare dealings are also exempt from income tax. A State Mutual Fund has been estab-

cspital gains may be attractive given the likelihood of a short-age of scrip, but this implies a dull market with limited turn-over and, ultimately, little pub-lic interest and participation.

On the credit side, many Mauritian firms, especially those in the EPZ sector, are both under-capitalised and highly-geared. For them, new equity issues might be attrac-tive, though it will be very difficult to match the earnings yield available on gilts.

Listed companies will have to make 20 per cent of their equity available to the public (10 per cent on the second tier market) and this, plus the need to abide by international accounting conventions, may well limit the number of firms willing to go public.

A further dampener is the fact that KPZ firms pay a profit tax of 15 per cent, already lower than the 25 per cent incentive rate offered to com-panies that go public. For this reason, non-EPZ firms -hotels, the sugar sector, the large trading houses such as the Rogers group and Ireland Blyth, and the import-substitu-tion industries catering to domestic demand - are more likely candidates for quotation on the Port Louis market. Another snag is the absence of merchant banks from the

Mauritian market, implying that the issuing house and underwriting function will have to be undertaken by the broker firms themselves. There is a question mark, too, over the degree of foreign participation. The Government does not want to see Mauritian companies being taken over by foreigners via the stock mar-ket, which will both limit foreign involvement and necessi-tate a system of dual share certificates, whereby foreign-owned shares can be traded freely only among foreigners.

Mobilising and boosting domestic savings and democratising share ownership are worthy objectives, but progress down this road seems likely to be very slow. The SEC's decision to start operations on a limited scale and its evident determination to world form determination to avoid finan-cial scandals and controversial take-overs by maintaining a firm initial grip over the market is both understandable and pragmatic. At the same time, however, there is a danger of disappointment and even disillusionment within Mauritius likeli because the stock market concept, worthy though it is. has generated unrealistic expectations. TH

Exports lag imports

RAPID ECONOMIC growth invariably gives rise to balance of payments problems. Manri-tins is no exception. Since 1983 imports have grown faster than exports — averaging almost 30 per cent annually while export expansion averaged 26 per cent. An obvious explanation for this is the high import content of two of the embangs earners — the Export Processing Zone and tourism, but imports; surged in 1967-88 in response to increased investment and the consumer spend-ing boom fuelled by major wage awards in both the public

and private sectors.

The EPZ, being the most dynamic trade sector, has donbled its share of total exports since 1983 to 60 per cent last year. EPZ exports increased five-fold from MRs 1.3bn in 1983 to MRs 8.3bn last year, of which MRs 6.7hn represen textiles. More important is the growth in the zone'e net exports, estimated last year at MRs 2.5hn or 18 per cent of total exports compared with MRs 460m or 10 per cent of

exports five years ago. Foreign exchange earnings, including income from invisibles, estimated last year at MRs 19bn, emanate from three main sources - the EPZ accounting for 44 per cent (with the textile industry's share at 35 per cent), sugar for 24 per cent and tourism for 13 per cent. A fourth element, whose significance is increasing, is income from port services and passenger movements which contributes 9 per

In the next decade the Government plans to develop the services sector with Port Louis

becoming a free port and, by turning the island into an entrepot centre, offering ware-housing facilities for foreign manufacturers seeking marmanufacturers seeking mar-kets in Africa or even as far afield as the Comecon bloc. Macritius with its strong for-eign reserve base (17 weeks' import cover) hopes to estab-lish itself as an international wholesaler, buying from Far-Eastern suppliers and teeding in Africa and Regions Europe. At present, trade is done. At present, trade is don't munity and Far Rantern mar-kets. Last year, EC countries supplied a third of total imports while East Asia supplied 28 per cent. Trade with Africa is tiny, with the exception of South Africa which last year was the second-largest supplier with 9 per cent of the Mauritian market, after France with 13 per cent. The US was in third place with 8.6 per cent of total imports but this was a one-off situation (the purchase of a Boeing aircraft) while Britain and Japan each had an 8 per cent market share. The EC buys almost 80 per cent of Mauritian exports with Britain, the largest single maret, absorbing some 35 per cent

of total exports, mainly sugar. France is the second largest importer with 23 per cent of the market (chiefly textiles) and the US is in third place, quotas on Mauritian exports of clothing and textiles notwith-standing, with 12.5 per cent. Mauritius is a member of the Preferential Trade Area embracing southern and east-ern African countries but the ne of business is tiny with total trade estimated at only

domestic consumer boom and if the strong uptrend in tourist earnings is maintained. **Tony Hawkins** 

#### INDUSTRY

MRs 200m in 1988 Gess than 1

per cent of the total). At pres-

# Capital-intensive shift

Processing Zone (EPZ) has been the powerhouse of the Mauritian economy, growing at more than 25 per cent annually. Manufacturing industry ally. Manufacturing industry
as a whole has grown at 15 per
cent a year, boosting its abare
of GDP from 16 per cent in 1983
to 25 per cent lest year, with
the EPZ's share of GDP trebling from 5 to 15 per cent,
writes Teny Hawkins.
Recently, the tripartite division of industrial activity into
the Expect Processing Yous.

the Export Processing Zone, sugar processing and other import replacement activities satisfying domestic demand has started to break down. has started to break down. Some firms have moved out of the EPZ to sell in the local market while home ariented manufacturers have begun to export, especially to regional markets. New investors are being allowed the same generous incentives as EPZ producers to sell both locally and internative markets.

export markets. EPZ expansion has started to slow, slipping to 21 per cent last year because of bottle-necks in the labour market, in infrastructural capacity and in the construction sector. Officials expect growth to slow fur-ther to 15 per cent this year

and 12 per cent in 1990.

Fewer new enterprises are being launched — 44 in 1968 compared with more than 100 a compared with more than 100 a year during 1985-87 — while employment, which doubled between 1984 and 1986, fell slightly in the final quarter last year. But there is some evidence of a shift to a more capital-intensive pattern of production, with investment in many and machinery increase.

duction, with investment in plant and machinery increasing 27 per cent last year as against 18 per cent in 1987.

Despite the alowdown the EFZ's dominancs — and that of taxtiles within it — is unquestioned. Last year, it accounted for 54 per cent of manufacturing value-added, up from 30 per cent in 1982, three-quarters of industrial employment and 60 per cent of total exports. The purely demestic industrial sector has grown at 7 per cent annually, despite the progressive aroaten of its taxiff protection since the 1988 trade libertion since the 1988 trade liber-

alisation programme.

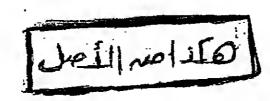
A changed pattern of industrialisation is inevitable in the light of the shift in the island's comparative advantage from low-skill labour intensive to more skill intensive activities, implying greater investment in both physical and human capital Rapidly increasing wages and greater labour mobility. rising real estate prices and the need for anti-pollution investment by manufacturers are threatening the island's viability as a low-cost manufacturer, while some industrialists argue that productivity is no more than 50 to 60 per cent that of Hong Kong, underscop-

that of Hong Kong, underscoring the need for increased training at all levels.

The range of diversification options is constrained by the labour and skills shortage, the new concern to combat pollution, and physical limitations in terms of both space and infrastructure. But none of the chosen activities — leather goods, jewellery, toys, electrosics — has yet come near to matching the take-off enloyed by buttles.

"In the past, we have gone for quantity rather than quality when seeking new enloyed ity when seeking new enloyed the search is on for more specialised, sophisticated, high value-added activities and two joint ventures in the computer software field — one protest.

joint ventures in the computer software field one British and one French that will come on stream shortly are an indication of a new direction in



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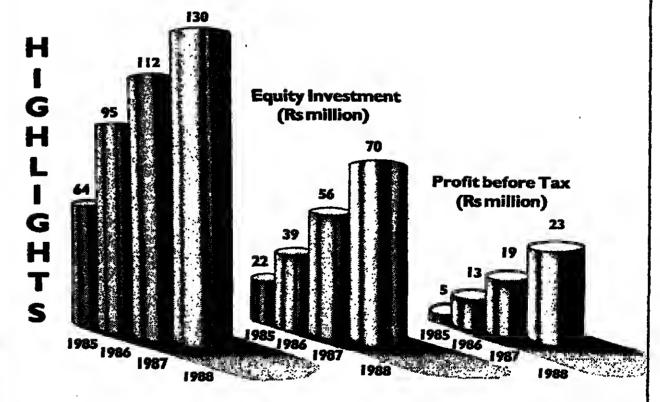
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# Incentives for sugar planters

PRODUCTION AND processing of sugar still dominate the Mauritian economy, notwith-standing the great strides in

the Export Processing Zoue and the tourist boom.
Sugar provided one third of gross export earnings last year, with a substantially higher net return than the other two sectors. It accounts for 13 per cent of GDP, 15 per cent of total employment and generates 11 per cent of government reve-nue in the form of duty on exports. And 87 per cent of total arable land is devoted to the crop, which in the 1988 sea-

son produced 635,500 tonnes. The 1989 crop was hit by the cyclone in January, but Agri-culture Ministry officials believe that it did not do as much damage as first feared though production may be down 10 per cent as a result. Estimates of the crop range from 580,000 to 610,000 tonnes.

Thanks to the cushion provided by access to the European Community at preferen-tial prices guaranteed under the Lome Convention, sugar will remain the backbone of the island's agriculture for the

But an industry which underpins the island's economic health faces a major challenge: the labour shortage created by mainly by ths

**BERTY MALABAR personifies** several strands in the Govern-ment's agricultural diversification policy. The take-off of his fruit and vegetable export business owes much to tax breaks, Export Processing Zone incentives and support from the Development Bank of Mauri-

tius, writes Michael Holman. Brand recognition of his products is helped by the tourist sector's publicity for the island, and the increase in airlines operating long-haul tourist routes provides ample freight capacity, and gets Mr Malabar's products on Europe's shelves within 24 hours of picking. But perhaps the key factor is his entrepreneurial drive.

From what was almost literally a backyard fruit and vegetable business, he has moved into the export market. He now operates from a spacious new warehouse in the Phoenix industrial estate 40 minutes from the island's new airport. Seven years ago his family business sent 250 kilos of pineapples, passion-fruit, papayas,

growth of textile business. At the same time the workforce in the sector is ageing as more and more school-leavers make jobs in the Export Processing Zone or tourism their first

The problem is affecting both groups of producers — the plantstions attached to the island's 19 factories, which cover 51 per cent of land under sugar and account for around 60 per cent of output, and the 35,000 individual planters, 90 per cent of whom work plots of

under two hectares.

Describing the situation as "alarming," Mr Vishnu Lutchmeeuaraidoo, the Minister of Finance, last June gave a boost customs duties and stamp duty on imports of all agricultural equipment, including spare

parts.
This was followed np last December by the Sugar Indus-try Efficiency Act, which pro-vides a wide range of incentives for both groups of producers. These include:

 rationalising export duty, by establishing a uniform tax rate of 18.75 per ceut, and setting the exemption limit at 3,000 tons of sugar,

· improving the small farmers' sugar apportionment ratio - the proportion of sugar held by the factories - from 74:26 to rates doubled, says Mr Sunabolishing export duty on

molasses;

• exempting planters from income tax ou the proceeds of the first 40 tons of sugar sold;
• improving the level capital allowance against tax to encourage investment:

rebates on export duties paid by millers which increase according to factory efficiency

in the extraction of sugar from the cane: • measures to encourage use of bagasse - the cane waste as a fuel for electricity produc-

At the same time, the Government has set up four ser-vice centres for small planters, financed by a loan from the World Bank, which provide commercial and technical

The moves have been widely

Mr Kreepalloo Sunghoon runs the Northern Planters Association, representing about 870 smallholders. He esti-mates that the tax breaks ean that over 90 per cent of the association's members no longer pay income tax.

But he warns that the labour shortage in the coming harvest - end-July to mid-November will be "acute." Last year during the harvest peak labour

ghoon.

He agrees that mechanisation could ease the problem:
"Mechanical loaders could save a third of labour costs, and in the off-season they could be used for derocking — gathering up and piling into calrus the volcanic boulders that dot

the landscape. Such equipment is beyond the reach of the individual smallholder, and Mr Sunghoon helieves the answer is for asso ciations such as his, or smaller groups of growers, to club together and buy the labour-

saving equipment.

But this proposal will take time to implement, and most observers believe the labour shortage will hit the 1888-89

The labour problem aside, the sector continues to peg its fortunes to two vital quotas, offered by the European Community and the US.

The bulk of exports goes to

the Community - mainly to Britain - under the Sugar Pro-tocol of the Lome Convention, at a price well above market-determined Isvels. The EC quota for 1988-89 is 507,200 tonnes. The US quots for the same period has been set at

Michael Holman

## Fight to stay upmarket undermined by trips from Reunion

# Rethink under way on tourism

THE MAURITIAN tourist liers agree, are sound. The docimustry has boomed over the ument stresses the need to proindustry has boomed over the past decade: from 108,000 visitors in 1978 to 245,000 last year, worth MRs 2,500m (\$175m) in gross foreign exchange earnings and providing over 6,000 jobs, with many more created indirectly.

But some demanding issues must be resolved. Government officials have in the past set two targets for the decade to come - \$25,000 in 1882 and 400.000 by the turn of the cen-

tury.
Can development of the island's infrastructure keep pace with the increase? How will this be funded? Will the efforts to overcome serious environmental pollution take effect before the island tarnishes its image of "virgin" beaches and clear sea? Can Mauritius continue to secure the upper bracket of the mar-ket as the number of tourists increases so dramatically?

The answers were not readily apparent in an unusual Government white paper on tourism published last year, drawing on a wide range of authorities, including P Evrey, a "world-famous" Bulgarian consultant, and acknowledging inspiration from Thoughts of Lao, by the Chinese philoso-

The broad objectives, hote-

able from ministries and Media

(the Mauritius Export Develop-

ment and Investment Author-

ity), writes Michael Holman. Most civil servanta start

work at 9 am and finish at 4

pm. So pack your swimming

costume and golf clubs (there

is a picturesque course oppo-site the beachside Trou aux

Biches hotel, 20 minntes from

the capital, Port Louis) but

tect the environment, and advocates the encouragement of a wider range of tourist activities, such as ballooning, deep sea diving and golf.

It supports greater regional co-operation in the tourist sector - linking up with the Sey-chelles, for example, and encourages the attempt to win new markets in Japan, Austra-lia, the Middle East.

Future hotsi expansiou should take place in designated areas rather than the haphaz-ard development that has characterised the sector during the past decade. The size of a hotel should not exceed 200 rooms. Training for the sector will be

But neither the white paper nor the National Development Plan set out a convincing blue-print which, when implemented, will turn these princi-ples into reality, or indeed explained why 400,000 tourists in year 2000 is an appropriate

A major rethink is under way under Mr Michael Glover. the able new Minister of Tourism. "We have to do far more plauning and prsparation before we commit ourselves to targets," hs says. "We must

Tourism revenue Rupees billion

keep a balance between tour-ists and the island's population

Source:Bank of Mauritius & FT estimates

1980 82 84 86

of just over 1m. Mr Glover intends to continue the policy of diversifying the island's market, helped by new long-haul routes operated by Air Maurittus, the national carrier, and other airlines.
In 1978 nearly two-thirds of the tourists came from three

sources - South Africa. France, and Reunion, an island department of France which is a short hop away from Mauri-tius. By 1987 the proportion had fallen to just under 60 per cent, with the percentage of visitors from Italy, Germany and Switzerland more than

doubling. The clearest fall in market share has been South Africa, dropping from nearly 28 per cent of the visitors (1964) to around 14 per cent last year though the number of South Africans coming to Maintitie has steadily increased from 19,000 in 1978 to an estimated 29 000 last year. 38,000 last year.

The percentage is expected to fall further in the years to come – not because of any dis-couragement of South African tourists, but as a result of efforts to widen the market.

Meanwhils the authorities Meanwhils the authorities are keeping a close eye on the role of Reunion. In the effort to keep Mauritius an upmarket destinction, charter flights have been banned. But tourist officials point out that many French visitors are taking charters to Reunion (there are three a week), and then makthree a week), and then mak-ing the short journey to Mauri-tius "with their knapsecks, and looking for cheep accommode-

There is no easy answer. The charter flights cannot readily be curbed, and this lower end of the market is readily catered for by bed and breakfast facilities provided by Mauritian families with a flat or cottage by the coast.

Michael Holmen

#### HORTICULTURAL EXPORTS

# **Bearing fruit**

litchis, mangoes, avocados, green beans and okra to Europe, Today his new facility has a capacity of several tons a day, which will rise to 30 tons when a second phase is com-

The warehouse, which employs up to 50 people depending on the season, is currently handling one ton. Mr Malahar hopes to reach the plant's limit in three to four years. Refrigeration units for four cold stores are soon to be installed, along with a weigh-bridge - brought in duty-free, like the rest of the equipment, under EPZ terms.

"Otherwise I couldn't have afforded it," says Mr Malabar. The Development Bank provided 60 per cent of the project's MRs 6m cost. As a scheme which was granted an agricultural development certificate, Mr Malabar's tax ceiling is 15

per cent. How does Mr Malabar cope with competition from Kenya, which is closer to the European market? "Provided we offer quality, purchasers are prepared to pay a premium."
Two critical factors will determine the success of the

operation. The plant is sup-plied by smallholders, wbo need encouragement to expand their output. Sugar production dominates the agricultural sector, and land is in short supply. A smallholder has to weigh the benefits of higher income from fruit and vegetables for the overseas market against a more modest but, in effect, guaranteed return from sugar. The second factor is weather. Mauritius is in the cyclone belt. A January cyclone caused millions of dollars worth of

damage, not only to the sugar crop, but in some areas wiping out fruit and vegetables that were in season - mangoes and avocados.

Mr Malabar's longer-term aim is to go into plantation production of items such as litchis. The Government is leading the way, and has set up at Pamplemousses a 10-bectare litchi orchard under irriga-

notably the anthurium, an exotic reddish-pink bloom looking rather like a pair of elephant's ears with a protruding yellow trunk, or spadix. Exports of what is becoming the island's brand symbol along with the dodo, the now extinct wingless hird - have soared. A market worth MRs 29,000 in 1972 reached MRs 24.6m in 1987, with the low-weight, high-value blooms going round the world. The

valus of fruit and vegetable exports is modest - MRs 42m

in 1987 - but the scope for

expansion is considerable.

MAURITIUS offers a happy medium for the business visi-tor, seeking efficiency while maintaining the quality of life. Telecommunications are excel-lent and help is readily avail-

tion, and leased to 25 growers. Mauritius has also moved into the cut flower market,

> remember to come with plenty of business cards, an essential part of every introduction. There is no first-class hotel in Port Louis, but few visitors stay in the city since so many splendid resorts are within a 30-minute drive. Taxis are reasonably priced and most offices and government ministries are within a few minutes' walk of each other. La Bonne Marmite, Sir Wil-

liam Newton Street (2-2403) is a pleasant city centre restaurant

#### **BUSINESS GUIDE**

which offers a delicious paim heart salad. La Flore Mauri-cienne, Intendance St (2-2200) is also recommended. The Taj Restaurant, Sir Wm Newton St 08-9622, provides good food and a top floor verandah view of the harbour.

One of the first ports of call should be Media, Jamalacs Building, Old Council St, Port Louis, tel: 08-7750/54; telex: 4597; fax (230)085965. Officials will advise on every aspect of doing busin

The Mauritius Export Pro-cessing Zone Association represeuts and advises business which have taken advantage of wide-ranging government investment incentives. 42 Sir Wm Newton St, Port Louis. Tel: 2-1853/08-5216; th: 4612.

Help and information can also be obtained from: Mauritius Chamber of Commerce and Industry, 3 Royal St, Port Louis. Tel 08-3301; tlx Mauritius Employers Federa-

tion. Cerne House, Port Louis. Tel 2-1599; tlx 4220. Development Bank of Mauri-tius, Chaussee St. Port Louis. tel 08-0241; tlx 4248; fax: (230) MINISTRIES (Port Louis)

Prime Minister's Office – tel 01-1017; thx 4249. Finance - tel 01-1146; tix 4249. Industry - tel 01-1068; thr 4249. Trade - 01-212 MAIN BANKS 01-2123/4; thr 4249. Bank of Mauritius, Sir Wm

Newton St. tel 08-4164; tix 4253. Manritius Commercial Bank: Barclays Bank: 2-1816 Hong Kong Bank: 08-1801 Bank of Baroda: 08-1504/5

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Le Pearle Beach: tel 53-8428; thr La Pirogue Sun: tel 53-8441; tix 4255 ☐ With fax machine

Meridien Brabant: tel 53-6781; tlx 4444; fax 53-6786 Meridien Paradis: tel 53-6775; tix 4227; fex 53-6786 VISAS AND HEALTH

No visas required for Com-monwealth passport holders, BC, Scandinavia, Japan, US, South Africa, Oman, Quatar, Saudi Arabia, United Arab Emirates.

Yellow fever and cholera vaccination certificates may be needed if arriving from infected areas. There is no malaria in Mauritius. Avis: Al-Madina St. Port Louis: infected areas. There is no tel 68-1624; tix 5289; fax 68-1014.

Hertz: Royal Rd. Curepipe tel 86-1635; tix 4435; fax 866425 from Port Louis.

# State Bank The network

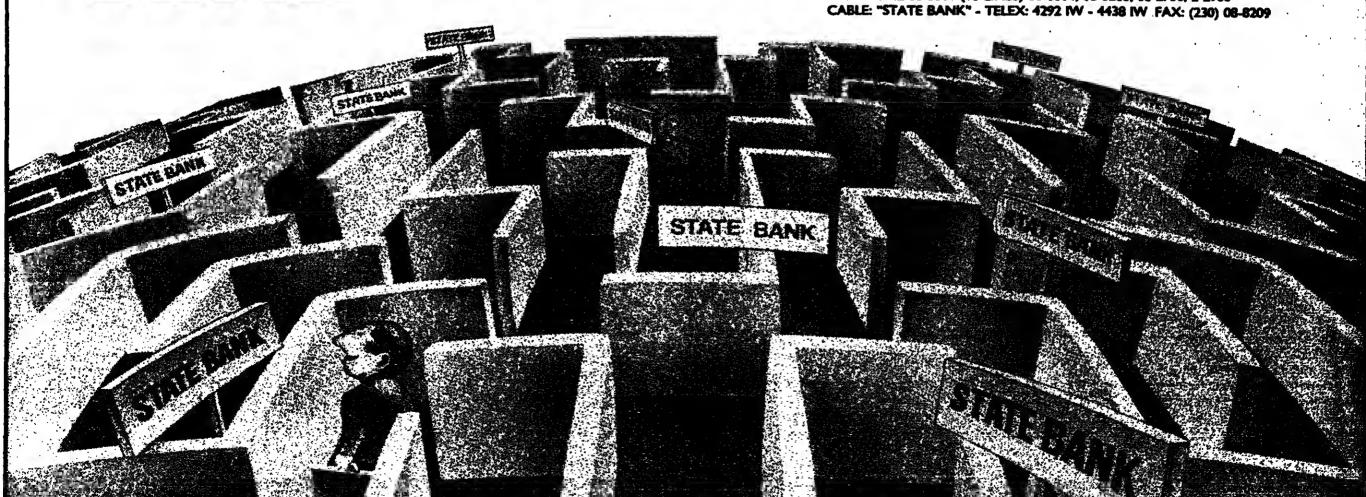
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# **FINANCIAL TIMES** COMPANIES & MARKETS

Monday March 20 1989



#### INSIDE **NFC** rolls towards an £87m profit

NFC, the UK freight and distribution group which was floated on the London Stock Exchange last month, has delivered on its promise to announce a profit estimate for the current year. Sir Peter Thompson, chairman, told about 2,000 shareholders at NFC's annual meeting in Brighton on Saturday that the board's "best view" of pre-tax profits for the year to September 30 1989 was £87m (\$148m). John Thornhill reports. Page 32

#### Life with a thinking computer



Michael Ic;

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Artificial intelligence like judgments, can speed up professional work by at least a factor of ten

of 40 is common. So says Professor Edward Feigenbaum, a pioneer of "expert systems", in a recent book. But if Al is such a powerful business technology, why are not more compa-nies using it? Peter Martin examines the question in the Business Column. Page 44

#### Court victory for Polaroid

Polaroid has won a major court victory that significantly increases its chances of defeating a takeover offer from Shamrock Holdings, the investment vehicle of Mr Roy Disney, the California businessman. The Delaware Chancery Court upheld plans by the photography group to buy back some 22 per cent of its chares at \$50 a share for a total of \$800m, and to sell \$300m of additional stock to a friendly investment fund. Page 30

#### Buildogs come off the leash



Last week's UK budget opened up the Euro-sterling market to create what one analyst called a level playing field. The removal of the Bank of England queueing restrictions on domestic and Buildog issues means Eurosterling deals will-

have to compete more directly with these other sectors, reports Andrew Freeman, Page 28

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Money markets New lot bond les

#### Companies in this section 32 Henderson Land Dev

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Elders Brewing Group	* helf share	٠ /ر ٢
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# The global pub crawl

Gordon Cramb looks at Elders' expansion strategy

HIS WEEK could be decisive for British brewers, which are awaiting the verdict of the Monopolies and Mergers Commission on the way their industry sells its products, as well as the view the competition authority will take on the £1.6bn (\$2.7bn) contested bid for Scottish & Newcastle by the Ansact Scottish & Newcastle by the Australian-based Elders IXL. Lord Young, the UK Trade and

Industry Secretary, is expected to pronounce on both MMC reports soon, and simultaneously. Taken together, they are thought likely to provide the dray-cart which will convey UK beer production into the 1990s, and into the single European market. Whatever the decisions, they

will have a significant effect on win nave a significant enect on the global brewing strategy of Elders, which owns Courage in the UK and wants the extra capacity S&N can provide. Elders, producer of Foster's lager, proclaims itself untroubled by one key aspect of the wider MMC inquiry – a mooted separa-tion of brewing activities from mac inquiry – a moored separa-tion of brewing activities from the "tied" ownership of public houses. The group takes the view that an end to tied houses in the UK offers, if anything, more opportunities to "Fosterise" a

market which until recently was too riven by local brand loyalties. Blocking of the S&N bid would be a blow, despite some City sug-gestions that Elders might not renew its offer anyway. At the same time, though, Elders is looking at possible links with other European brewing groups. In the UK, Foster's is produced under licence by Grand Metropolitan as well as by Courage, and Elders is keen to extend its presence on the Continent, where it already has one licensing accord, with the state-controlled Pripps

Last week, intriguingly, the Buropean Commission launched its own review of competition policy in the industry. This may overturn an exemption granted to EC brewers in 1984 which allows them to exclude rival products from retail ontlets

which they supply.

If Elders wins S&N, within two months of completing the acquisition it plans to set under way the spin-off of Elders Brewing the spin-off of Elders Brewing Group (EBC) as a separate quoted company, with headquar-ters in Edinburgh and control of the group's worldwide beer operations. This could be done within two years, but Elders says that even if it is denied S&N, the EBG base will be moved to London and the flotation will go

Analysts see EBG as creating the world's only "pure" multina-tional hrewer. This reflects: A diversification by other big beer producers into food, leisure and related areas, which EBG says it will largely avoid.
 Elders' move last year to put

its Courage estate of some 5,000 public houses into a property joint venture. "In one sense, we have already broken the tie," says Mr John Elliott, chairman.

The geographical scope of its countries." operations, which mean that EBG produces as much beer abroad as it does in Australia.

The inclusion of S&N would lift: its ranking in the world league from seventh to fourth, bringing worldwide capacity to some 29.4m hectolitres and EBG revemes to A\$7bn (\$5.6bn).

lready this year the company has acted to rearrange its operations in North America where it owns Carling O'Keefe, the third largest Canadian brewer.

In a deal reached in

with rival Molson, the beer businesses of the two are to be com-bined to create a unit that will supply more than half the beer sold in Canada and take top spot in the marketplace from John

More importantly, the move improves prospects for sales in the US market for premium-priced imported hrands — a sector which, although it accounts for only 5 per cent of the national total, bigger than the whole Aus-tralian beer market. in big US brewing takeovers. In the week before the Molson deal - which itself involved no cash changing bands - Elders sold a US\$75m investment bolding in Anheuser-Busch, maker of Bud-weiser and the world's biggest

The stake represented barely 1 per cent of Busch and most analysts were sceptical anyway that Elders, with an estimated A\$2.2bn in debt and more held off balance sheet, could have mounted a full bid.

RBG sees local manufacture as largely counter-productive in the American market where distinc-tive marketing and a foreign cachet can produce rapid growth.

In the US "we are not taking the majors head-on," says Mr Elliott, whose cantion con-trasts both with his usual thinkbig ebullience and with the route followed by Mr Alan Bond, his chief domestic rival.

The Perth-based Bond Corpora-tion, maker of Swan and Castle maine XXXX, in 1987 paid \$1.3bn for G. Heileman Brewing, a clitch of regional producers which together comprise the fourth largest US beer maker. In Australia the two groups dominate a market in which con-

sumer allegiance along state lines is being steadily eroded. As regards its overseas expan-sion, Elders says that if the S&N outcome is unfavourable it has British alternatives in mind, and that the outcome of the industryof any further consolidation in UK brewing.
Mr Andrew Cummins, Elders'

strategy director, says that expansion into Continental Europe could come either through exports from the UK, given the capacity Elders needs, or by local manufacturing. Certainly, a deal-driven group like Elders will in the coming months pay close attention to the views being assembled in Brus-

sels on brewing across the Com-

# Wall Street gets frightened of shadows

By Anthony Harris in Washington

ost harassed executives know the behaviour described by psychiatrists as displacement reaction, and by ordinary mortals as kicking the cat. Your superior is being impossible, and you can't do anything about it, so you take out your frustrations on the fam-ily pet. This seems to be the most rational explanation of two odd outbreaks of food panic in the US

The Chilean grape story needs no retelling here; the Food and Drug Administration, after consulting the White House, nearly brought the most robust econnmy in Latin America to crisis on account of two grapes, slightly tainted with cyanide.

This wild over-reaction may

This wild over-reaction may compensate for the under-reaction to a threat which has killed more than 100 people in the District of Columbia alone this year. automatic weapons in the hands of people in the grip of the rage and paranola caused by hangovers from cocaine intoxication. A temporary import han on these weapons is a welcome retreat from the Rambo slogans of Mr Bush's election campaign, but does nothing about the estimated half million deadly weapons in circulation, a fair proportion in the worst possible hands.

The sabotage threat that provoked the search for poisoned fruit has been repeated; but the President, whose most poten-tially promising initiative since he took office is a plan to reduce the debt service burden on Latin America, has now decided that the risk is acceptable. This sug-gests that he knows that the inigests that he knows that the mi-tial ban was an irrational step, reflecting perhaps the general nervousness about public safety.
The school authorities who

the school authornies who banned apples last week on account of a supposed health threat from an orchard chemical, Alar, demonstrated the same pattern. The public school system cannot teach a small but important teach as a small but important teach tant percentage of its pupils to read, and cannot keep a larger percentage off hard drugs (though some schools do now col-lect firearms at the door); but it can, by Adam, protect them from tainted apples. This ban, like the grape ban, has now been withdrawn, on no new evidence. Last Friday the same jumpiness seems to have spread to Wall Street, but there is unfortunately little reason to hope that more rational judgment will be restored within the week. The worldwide financial market set-back provoked by the latest US

producer price index is another over-reaction, this time to what is even more than usually a lagging index. However, it may well be reinforced tomorrow when the

reinforced tomorrow when the same well-known increases in some commodity prices appear in the consumer price index.

The detailed figures show that this is to quite a large extent yet another case of supermarket panic. Producer prices have been rising for some time at an average rate of 0.4 per cent a month, but in the first two months of this year they have risen a full this year they have risen a full percentage point. Half of the Feb-ruary overshoot was due to food prices, or more accurately to the prices of fresh rather than proed foods.

This in turn reflects two events which have nothing to do with the general state of the economy: vile weather in California, which provides much of the winter produce for the supermarkets; and a sharp rise in meat and poultry prices as a result of last year's drought, an increase which was forecast quite accurately as much as six months ago.

Nearly all the rest of the over-shoot can be attributed to Opec, shoot can be attributed to Opec, whose actions are known to everyone in the markets. Apart from food and energy, the PPI rose 0.5 per cent in February, almost on trend. The markets, in other words, were reacting to special factors in the recent past are if they were seneral trends. as if they were general trends which could be projected into the future. The Fed, which did not use Friday's fright as an opportu-nity to force the funds rate up another notch, may well prove more rational.

The trend in food prices may in The trend in food prices may in fact be sinister. California has suffered not only frosts and anowstorms, but it is still waiting for relief from last year's drought; and it is far from clear at this stage that conditions in the rest of the US farm bett will return to normal this year. It is trolliedy that US food prices will unlikely that US food prices will go on rising as they have, but they may not come down as was

This has been clear to the Chicago commodity trad-ers for months. However, this is a long-term problem, an we learned nothing new about it last Friday, when the markets not only over-reacted to news they should have anticipated, but ignored some rather good news even in the PPI figures.

This was that costs pressures further down the pipeline, in the crude and intermediate stage of



productions, seem to be subsiding after the strong rises last year. The prices of other industrial supplies, apart from energy, were unchanged in the month, while those of partly-processed industrial inputs, apart from food and energy, rose 0.5 per cent; this is the average pace for the last four months, and somewhat below the average for 1988.

Other recent evidence suggests a domestic slowdown, especially in housing and heavy consumer durables. This is reflected in the much calmer tone of the latest Federal Reserve Beige Book, which gives on-the-ground reports from member banks.

rational market, then, A might conclude that the recent news is rather reassuring on inflation. A trend up to 6 per cent or a little more has been apparent for some time; but it is easier than it was a few weeks ago to feel this will be a peak rather than a new trend. The rate is unlikely to come down to the very low levels for 1987 and most of 1988, when underlying inflation was sup-pressed by the oil glut, and by ferocious competition at the retail level, which drove margins down to a survivable minimum; hnt it does seem likely to fall back to around 4 to 4.5 per cent. The fall in consumer spending, and what even the Fed describes as slack demand for new credit, is also reassuring on the balance is also reassuring on the balance question. Its reflection, the higher saving that some believers in demography have been expecting all along, will reduce imports, and lessen the urgency of the importance of the still invisible progress towards a sensible federal budget.

The beint Economic Committee

The Joint Economic Committee of Congress has just provided an interesting budget footnote: it seems that the search for loop-holes in the Gramm-Rudman def-icit reduction process has not been quite so successful as I have suggested in this column. The JEC shows that when all expenditures are allocated to their proper year, the big swindle was the one on 1987, when no less than \$37bn

cent years. This year they put the "true" Bush deficit at \$127bn, leaving a gap over the \$100bn target which a rational government could bridge. If Mr Bush can be per-suaded to treat his read-my-lips slogans as rationally as he has now treated his commitment to no gun control, there will really be something to celebrate.

# Dissent in the monetary ranks

THE DELORS Committee has got down to serious talking after six month's fencing. Last's week row among the 17 European Community cen-tral bank governors and out-side experts who are studying possible "concrete steps" towards economic and mone-

tary union in the EC shattered a growing belief that it would a growing benef that it would be easy for all the central bankers except Mr Robin Leigh-Pembertou, the Gover-nor of the Bank of England, to sign up to a joint report Difficult discussions lie shead. Mr Karl-Otto Pöhl, the

Bundesbank president, is nota-bly less optimistic that the Delois group can agree a text marking out steps towards economic and monetary union by the planned end-April deadline. Last week he said that "lots, lots" of amendments would have to be made to the latest draft. A month eatlier, Mr Pöhl said he was pleasantly sur-prised by the high level of conensus in the group. But the differences over

whether the latest draft envis-aged too rapid a movement towards economic and monetary union do not necessarily m that Mr Leigh-Pemberton has acquired allies to support the British Government view that economic and monetary union should be off the agenda for now and the foreseeable

The Delors Committee contains a number of shifting alli-ances and interests. Although Messus Pohl and Leigh-Pember-ton and Mr Plears Jams, Luxembourg's representative in the group, opposed the latest draft they are far from forming united front.

Mr Pohl heads a group which is opposed to rapid change in Europe's monetary arrangements but not opposed to change per se Other members are the representatives of Luxembourg, the Netherlands and Denmark, the latter havporting Britain when the Delors group was constituted

last summer.
These Delors group members want all the EC countries to become full and equal mem-bers of the EMS before moving

on to new goals.

Although sceptical about monetary union, they do not rule it out as a distant objective, providing sufficient progress is made towards integration in other areas of the tion in other areas of the European economy. A major concern of this group, which is thought also to include Ireland, is that prema-

ture progress towards mone-tary union could lead to massive disruption in the EC's weaker economies and destroy all that has been achieved in the EMS. This group supports Mr Pöhl's "crowning" theory by which a common currency and central bank for Europe come at the end of a very long

The other main group is the Euro-enthusiasts. France, Italy and Spain, with the possible addition of Belgium, support rapid progress towards mone-

tary union. Both Italy and France have put forward proposals to develop the EMS in this direc-tion. It appears not to worry the enthusiasis that they fall short of the Mr Pohl's definition of full KMS members.

France, though making strides towards the elimination of exchange controls, will not be rid of them until 1990. Italy has exchange controls an wide 6 per cent fluctuation margins for the lire in the

exchange market, while Spain is outside the EMS exchange rate mechanism. These countries appear to subscribe to the "bicycle" theory of international monetary

relations by which it is neces

sary to move forwards, hre-

Belgium operates a two-tier

spective of problems, for fear of falling when standing still.

Outside the two main groups is Britain, by virtue of its non-membership of the exchange rate mechanism and Mrs Thatcher's well known refusal to cede sovereignty on mone-

After last week's spat in Basle, Mr Leigh-Pemberton could be forgiven for thinking that his problems had eased. from Mr Pöhl and his friends was that they want Britain to sign up as a full member of the EMS and that their patience could run thin in the absence of action by London.

Nice Little Runner Last week's Budget fell far short of what the industry lob-

hies had hoped for by way of tax relief. But the Treasury believes the Chancellor's decision to increase the profit limits for the so-called small companies' corporation tax rate in 1989-90 deserves more than mere footnote treatment. It is, said one senior official, "a nice

little runner." The Treasury estimates that about 23,500 companies will benefit from increases in the limit for the reduced 25 per cent rate from £100,000 to £150,000 and the limit for mar-ginal relief from £500,000 to £750,000 (\$1.28m).

Compared with the amoun of tax paid by the 16,000 companies which earn more than 2750,000, the overall saving to industry of £35m in 1990-91 will be small. But the Government believes that the changes will help small innovative companies in a time of economic slowdown. The lower rate should also encourage an increasing number of smaller firms to reise equity finance rather than rely on bank loans.

Peter Norman

# THIS WEEK

INFLATION rates in the US and UK take centre stage this week and could influence speculation about international trends in interest rates.

The US consumer price index for February is released tomorrow and the consensus of analysts forecasts, compiled by MMS international, the financial research company, is for a

0.5 per cent rise.
The UK's retail price index for February, published on Thursday, is expected to show a 0.6 per cent rise, taking the annual rate of inflation to 7.7 per cent - up from 7.5 per cent

in January. Other US statistics include personal income and consump-tion figures for February, due on Friday, which will give a guide to the buoyancy of the consumer sector. Rises of 0.5 per cent and 0.4 per cent are expected respectively.

Wednesday's advance report on durable goods for February, measuring orders in the pipeline, will provide an indicator of future industrial production. The consensus is for a I per As well as inflation, UK sta-

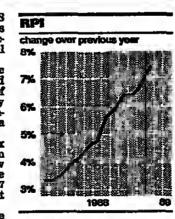
tistics also include today's money supply figures for February which will provide pointers to economic activity and MO, the parrow measure con-

sisting mostly of notes and coins in circulation, is expected to show a fall of 0.7 per cent. M4, the broader measure including bank and building society deposits, is forecast to have grown by 1.7 per cent. Bank and building society lending is expected to have risen by £5bn (\$10.2bn).

In France, trade statistics for February are released on Friday. Little improvement seems likely after January's FFr2.8bn (\$444m) trade deficit. Analysts will be looking for trends in imports of investment goods, particularly from West Ger-

many.

French Industrial production figures for January, due today



are likely to show the strong underlying growth rate continuing. West German money supply ted sometime this week.
Other events and statistics (with MMS International con-sensus of analysts' forecasts in brackets) include:

Today: Mr Nigel Lawson, the UK Chancellor, winds np House of Commons debate on last week's Budget. US three-month, six-month Treasury

Tomorrow: US Federal budget for February (-\$26.4bn). Three-month, sixth-month

Wednesday: UK building societies monthly figures for February. Manufacturers' and distributors' stocks in fourth quarter 1988. February cyclical indicators. Mr Alan Greenspan, US Federal Reserve Chairman, testifies before House Banking Committee on President Bush's proposed thrifts rescue plan. Two-year, four-year Treasury

Thursday: US revised gross, national product in fourth quarter 1988. (rise of 2.0 per cent). Three-month, six-month Treasury bill settlement. Japanese household consumption

in January.
Friday: US home sales in February (fall of 4.0 per cent). UK Good Friday bank holiday.

#### AND BEGINNINGS LEAD TO MORE BEGINNINGS.

This fiscal year Toshiba will spend around \$1.9 billion on the research and development of new beginnings like this medical imaging technology. Toshiba creates these quality medical systems to provide health care and maintenance. They join Toshiba's vast world of home electronics, office technology, electronic components and industrial electronics.

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#### INTERNATIONAL CAPITAL MARKETS

**EUROCREDITS** 

# An insight into US leveraged lending

competitors for insights.

Two leading US bank holding companies, J.P. Morgan and First Chicago Corporation, last Friday released their 1988 annual reports containing detailed information about the leveraged lending of both

The reports also shed light on why banks have reacted so on why banks have reacted so strenuously to suggestions in Congress, in the aftermath of RJR Nahisco's \$25bn manage-ment huy-out, that some tax advantages available to highly leveraged borrowers ought to

First Chicago said that, without its financing of leveraged bny-outs (LBOs), its net income would drop by about 7 per cent in one year and its revenues by about 2 per cent. The bank took about \$3.5bn in LBO loans on to its books in 1988 and said it had retained about 52.8 per cent of that exposure. It plans to very mod-estly increase LBO lending in 1989 to \$3.8bn. The loans gener-ated \$32m in fees in 1988, with another \$10m deferred.

Similarly, J.P. Morgan, parent company of Morgan Guaranty, said in its annual report that, while it would be difficult to make accurate estimates of an immediate cessation of all newly initiated highly leveraged transactions, the bank believes such a cessation could reduce its net income by up to 5.0 per cent and its gross reve-

EUROMARKET

EUROPEAN bankers who cannot comprehend the willingness of their American counterparts to pile into highly leveraged loan transactions would be well advised to turn to the annual accounts of their competitors for insights.

The back bald business forms. The company has just recently been purchased by Setsu, a Japanese paper hoard manufacturer which is providing a keepwell

> agreement.
> The facility is heing arranged jointly by Credit Suisse First Boston and Sumitomo Bank and is in two perts. The larger of the two is an eight-year \$250m amortising term loan with a margin of 50 basis points over London interbasis points over London inter-hank offered rates (Libor). There is also a \$150m five-year bullet revolving credit facility, also with a 50 basis point mar-gin. Both facilities include a supplemental margin of up to 50 basis points, the payment of which is linked to the Uarco's interest coverage retics. Initially, the full supplemental margin will be paid on both facilities.

The deal is unusual in that The deal is unusual in that the borrower is the acquiree, and is paying a substantially higher margin than any bank would demand of the new parent company. However, the interest payments will be used to offset income generated by Uarco, thus offering tax savings greater than the reduc-tion in interest rates that could

be achieved by desiging the loan as an obligation of Setsu. CSFB also said it has increased the size of its sevenyear standby facility for Compagnie Financière Michelin, the tyre maker, to \$400m from the \$150m initially planned. The margin is % over Libor with a facility fee of & and a utilisation fee of & if more than 50 per cent of the facility is

Swiss Bank Corporation said it has completed the syndica-tion of a \$55m five-year revolv-ing credit facility for Merioni Elettrodomestici, the Italian white goods manufacturer. There is a margin of 30 basis points and a commitment fee of 15 basis points, with a utilis-ation fee of five basis points if outstandings exceed 50 per

Norma Cohen

INTERNATIONAL BONDS

# Interest rate outlook remains a depressing factor

IF THE OUTLOOK for world interest rates remains as thoroughly depressing as it was at the end of last week, then investore might decide that 1989 is not the year for fixed interest investments and abanders the plant of the contract of the don their already selective buy-

ing of Eurobonds.

After Friday's US inflation figure, some bond markets went into a tumble that reminded traders of the worst days of 1967. In half an hour on Friday, the US long bond fell by more than two points, before rallying. Any new Euro-bond dollar issues this week should see coupons reach new highs, around 11% per cent at the short end and 11 per cent

at the long end.

In the UK on Friday, gilts were marked down by between about % and % point across the board. However, players in the sterling-denominated sec-tor of the Euromarkets were in reasonably good cheer. All the signs point to steady new issue activity this year, as well as improving secondary market

This year has already seen heavy volume of sterling-de-nominated bonds. The first six

months of 1988 were very active, but 1989 is likely to sur-pass that, with well over £3bn worth issued so far. According to a recent report from Bar-ings, of £3.27bn worth of ster-ling bonds issued by the end of February, some £2.85bn worth were Eurobonds, with the remainder comprising domes-tic debentures and unsecured

Last week's UK hudget opened the Euro-sterling mar-ket, to create what one analyst called a level playing field. called a level playing field.
Two measures were particularly significant: the removal
of Bank of England queuing
restrictions on domestic and
Bulldog issues means that
Euro-sterling deals will have to
compete more directly with
these sectors: and the abolition
of the restriction on issuers
wanting to launch instruments wanting to launch instruments of below five years' maturity not only permits short-dated Euro-sterling bonds, but also allows syndicate managers to consider deals with call or put options at any time during the ife of the bonds. In effect this will create syn-

thetic short-dated bonds via long nominal maturities. This

Budget move was welcomed by syndicate managers, who spent the next few days answering a stream of inquiries from inter-

Fortunately, perhaps, no issues were forthcoming. One syndicate manager described a "wave of pointless activity" and said wary sentiment towards the currency was broadly unchanged. Bond sales traff confirmed that declining staff confirmed that declining interest in fixed-income instruments has translated into fewer trade inquiries.

Uemand for sterling paper was said to be thin, and any rush of issues would severely stretch the sector. In particular, West German and Swiss investore, who were behind much of the buying early this year, reached their cash limits long ago. Their asset allocations and their caution over the outlook for sterling has dampened their enthusiasm. Nevertheless, there is medium and long-term interest in Euro-sterling bonds, concen-

trated at opposite ends of the yield curve. At the short end, the inverted yield curve means that fat coupons can be aimed at retail investors.

At the long end, the UK Gov-ernment's programme of buy-ing in gilts has created a shortage of bonds which long-dated Euro-sterling issuers have been happy to meet. The Budget sig-nailed that no new gilt issues can be expected this year and the buying in of existing issues

Analysts at UBS Phillips & Analysis at U.S. Philips & Drew estimate that, among all sterling bonds of 15 years or longer maturity, the non-gilt market is already almost as large as the gilt sector. By the end of March, there will be roughly £3bn in outstanding roughly 130n in outstanding Euro-sterling issues. The equivalent figure for UK domestic corporate issues will be £4.50n, and that for so-called Bulldog issues is £30n. Outstanding gilts will be around £12.80n.

Interestingly, since the Budget some investors are reported to have been switching out of the longer-maturity glits into shorter-dated paper, leading some analysts to wonder whether the Government may be getting less keen on buying back long gilts, intending to move lower down the yield

This would help the technical squeeze at the long end. Nevertheless, UBS Phillips & Drew projects a total gilts buy-in (that is, net of redemptions) for this financial year of 16bn, and it remains likely that some of this will be at the longer end of the maturity range. Researchers point out that Researchers point out that very different groups of investors buy Euro-sterling bonds and each has specific reasons

European investors used to holding Euromarket instruments usually buy Euro-ster-ling bonds of less than 10 years' maturity. Their invest-ment decision generally starts with a currency allocation, fol-lowed by an equity/bond allo-cation. The actual bond the to be purchased according to the quality of the issuer's name rather than to the yield

for doing so.

on the paper. When UK investment funds buy similar paper, two- or three-year bonds for example, their approach is almost the opposite. They are not making a currency decision and can compare the paper to short-dated gilts and money-market instruments on a yield basis. Purther down the yield curve. UK pension funds and insurance companies with long-term steritus liabilities have been the main buyers of long-dated bonds, which are used to match cash-flow requirements for pensions and life insurance policies.

One consequence for the market is that many long-dated Euro-sterling issues tend to be placed by lead managers straight into UK accounts where the bonds are locked away and never traded. The long-term future of the market will depend partly on the development of liquidity in this

Mr William Dunn of Société Générale Strauss Turnbull argues that, although the Euro-sterling market is moving in the right direction, many domestic investors have been slow to wake up to the oppor-

"Most UK investment map agers tend to favour long bonds, but if they moved into shorter-dated paper, they would often discover tremes

Andrew Freeman

Delver	y Market,			
USS Pres Other Pres	Straights 2,965.1 4,392.2 4,157.4 4,456.7	Cony 11.2 448.7 644.2 56.4	FR0 850.7 576.0 763.1 724.4	0ties 21,144.5 11,462.1 4,328.7 1,748.7
Second. USS Pres Other Pres	12,697.5 15,286.9 17,976.4 18,842.8	1271.9 1022.9 1.116.8 853.2	4,612.9 6,702.2 3,818.9 4,586.5	7,203.5 6,632.2 26,865.9 22,764.3
USS Prev Other Prev	n,	850.3 3 103.5 3 192.7 3	eroclear 0,907.0 5,441.7 4,178.7 9,294.1	Total 40,757.3 46,545.2 59,671.4 54,035.0
Week t	o <b>March</b> 16, 3	1989	Sour	oe: AIBI)

Borrowers	Amount m.	Maturity	Av. Iffe years	Coupon	Price	Book runner	Offer yield
US DOLLARS							
Honda Motor Co.	500	1993	4	418	100	Notitura Int.	4.125
Asahi Glass Co.	400	1993	4	418	100	Yamaichi Int. (Eur)	4.125
Asahi Glass Co.♥◆	200	1903	4	414	100	Singapore Nomura	4,125
Nachi-Fujikoshi Corp.	150	1993	4	434	100	Yamaichi Int. (Eur)	4.250
Nippon Thompson Co.	100	1993	4	438	100	NKK Europe	4.375
Settau Corp. •	200	1994	5	5	100	Dalwa Europe	5.000
Sekisul Chemical Co.	300	1993	4	418	100	Nikko Secs. (Europe)	4.125
Kansal Electric Power	358	1996	7	10	100%	Nomura Int.	9.821
Bergen Bank(e)	100	1999	10	1012	102	Drexel Bumham L'bert	10.172
Ohbayashi Corp.	200	1993	4	(45 <sub>2</sub> )	100	Nomura Int.	*
Sumitomo Metal Int.	100	1982	3	103	101.20	Daiwa Europe	9.894
Sparekassen SDS	100	1999	10	10%	102	Drexel Burnham L'bert	10.295
Tellin Ltd.4	300	1993	4	(4 <sup>1</sup> 2)	100	Dalwa Europe	*
Du Ponte	250	1992	3	10¾	101,225	CSFB .	9.636
Dainter-Bonz Int.	100	1999	10	10	1024	Deutsche Bk Can_Mkts	9.640
Svenska Handelsbank	100	1990	1	103	100.AS	Yamaichi Int. (Eur)	9.817
SNCF(I)	50	1990	i	1412	101%	Bankers Trust Int.	12.531
GMBS Int. No. 1(K)	100	1992	ġ	105	101 4	Bankers Trust Int.	9.998
Nat.Credit Card Tst(m)◆	130	1993	4	10.15	2012	Citicorp Inv. Bank	10.682
AUSTRALIAN DOLLARS							
Swedish Export Cr.(b)	50	1991	2	30	100	Marrill Lynch	30.000
Eurofima(f) 🌢	50	<b>1980</b>	1	2012	10134	Bankers Trust lot.	18.428
BM Australia Cradit	75	1993	4	155	102	Salomon Brothers	14.926
D-MARKS							
Bk For. Econ.Aff.USSR	750	1996	7	7	10014	Deutsche Bank	8.954
88♦	600	1996	7	65	1017	Deutsche Bank	6.420
Norld Bank	750	1997	8	65	190 1	DG Bank	6.502
SWISS FRANCS							
Mitsublahi Qil(a) \$A.4.	300	1994	-	C	100	Credit Suisse	
Megal Finance A & •	65	1993	•	512	10052	Bge Paribes (Suisse)	5.322

k runner	Offer yield	Borrowers	Amount m.	Maturity	Av. life years	Coupon %	Price	Book runner	Offer yield
		Megal Finance ★★◆	65	1994	-	55	101	Bge Paribas (Suisse)	5.30
ura int.	4.125	Nomura Secs.§ Nomura Secs.§nh-h	250 250	1994 1994	-	( <sup>1</sup> 2)	100 100	VBS Nomura Bank (Switz)	
aichi int. (Eur)	4.125	World Bank	125	1999		512	101	UBS	5.388
apore Nomura Jaichi Int. (Eur)	4,125 4,250	BP America **	100	1996	-	512	101	J.P. Morgan Secs.	5.32
Europe	4.375	STERLING							
va Europe to Secs. (Europe)	5.000 4.125	Royal Insurance(h)**	100	1990	1	11.67	1007	(Gelawort Benson	10.642
mis jur	9.821	ECUs							
el Bumham L'bert	10.172	PKhanken◆	50	1991	2	91/8	101 <sup>1</sup> s	Nomare Int.	8.490
ura int. va Europe	9.894	Council of Europe(c)	40	1990	1	14	1013	Morgan Stanley Int.	12.039
el Burnham L'bert	10.295	EI8(I)◆	150	1999	10	8	101%	Mitsubishi Fin.int.	8.712
va Europe	*	LIRE							
B Ische Bk Cap_MkIs	9.636	CIR Int. (Luxembourg)	100bn	1994	5	13	10112	Benco di Napoli	12.578
aichi int. (Eur)	9.817	E18(I) ◆	150bn	1994	5	64	100	C.Fin.Ligure/Centrobk	6.750
kers Trust Int.	12.531	GUILDERS							
kers Trust Int. corp Inv. Bank	9.998 10.682	Honda Motor Co.★★◆◆	400	1993	4	1	100	Amro Bank	1.000
DIP IIIV, Darik	TO. DOZ	Asahi Glass Co.**	200	1993	4	1	100	Amro Bank	1.000
	44.400	YEN							
riil Lynch kers Trust Int.	30.000 18.428	Gitoh Finance(Europe) 4	5bn	1993	4	752	111	New Japan Secs.(Eur)	4.438
anon Brothers	14.926	Christiania Bank (d)	21 <sub>2</sub> bn	1993	4	75	1015	Drexel Burnham L'bert	7.020
AUDIO O		Nat.a Provincial B.S.	15bn	1994	5	63	1017	18J Int.	4.945
		Skopbank(g)	5bn	1994	5	712	1013	Yamaichi int.(Eur) Samea int.	7.072
teche Bank	6.954	Banco di Napoli◆	5bn 60bn	1982 1999	10	5.35	1013	Salomon Brothers	5.090
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Andrew Fire

# M0 steps back into the spotlight

operates its newly defined monetary policy have emerged as the key elements in the Bud-ger for the gills market.

The glosses the Chancellor provided to the press following Tuesday's Budget appear to lend weight to the view that he hopes the next move in UK interest rates is down although he indged the timing.

The Budget Red Book elevated MO, the narrow measure of money supply which counts mostly cash in circulation, to the position of primus inter pares of indicators which the Treasury watches.

In determining interest rate policy, M0 is given "particular weight" in the assessment of monetary conditions. The exchange rate came second and broad money measures a dismal third, deserving only "attention," thereby dashing the hopes of some that the Treasury would mark the 10th anniversary of the medium term financial strategy (MTFS) with the reintroduction of a target for broad money. The six month annualised

measure of Mo, known for some time to be a favourite indicator of Sir Terence Burns, chief economic adviser to the Treasury, made an appearance in the Red Book for the first time. The rapid slowing in this measure was used to illustrate the Treasury's view that a slowing in nominal demand

THE OUTLOOK for inflation was well under way, having and the way the Government responded to the interest rate rises since last summer.

rises since last summer.

Putting together this restatement of the importance of Mo and the Chancellor's post-Budget gloss two strands to what the Government hope will happen appear to be:

That the authorities believe

they have done enough to slow the pace of domestic expansion through interest rates and do not see another rise; and, • That they are preparing markets for a cut in interest rates - the return to good behaviour of M0 being used to justify such a move - if ster-

Timing hinges critically on the exchange rate which like the 1988 MTFS had a specific role in fighting inflation. As part of mometary policy's over-riding aim of defeating infla-tion the Government will not be prepared "to accommodate increases in domestic costs by exchange rate depreciation. The main risk to the sce-

nario implied above is that inflation does not behave itself as well as the Chancellor fore t. The outlook for inflation deteriorated markedly between the time the Treasury did its Autumn Statement and Red Book inflation figures.

The mix of output and inflation has worsened from both directions: the MTFS envisages both lower growth and higher inflation. This is not an appeal-ing outlook, even if City mur-

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murs of "stagflation" may be a little overdone.
That said, there is a broad. but by no means universal, consensus that inflation, as measured by the retail price index, will peak over the next month or so at around 8 per cent and, having plateaued at close to that level for a couple of months more, begin to move down for the rest of the year. This view is based on cuts in bank base rates and hence bank base rates and hence mortgage interest rates which, by coming down at the same time they began to rise a year earlier, will have a beneficial effect on the RPL Few, how-ever, are forecasting much of a slowdown in the underlying rate of inflation - possibly a small uptick - which is the one the Chancellor has taught the markets to watch.

wage determination, and hence wage costs, the all-items RPI may be the most important Wage pressures are growing and are likely to do so as the economy slows, simply as an arithmetical function of slowing output and productivity. A further pick-up in settlements, now up I percentage point to 7 per cent over the year to date. would be worrying.
The Treasury does not seem

to allow for this and instead sees manufacturers' margins taking the brunt of the rise in costs. But revisions to last year's unit cost data suggest there was more cost-push inflation than the demand-pull inflationary picture that accepted wisdom first The optimistic scenario in

the Red Book also seems to assume a fairly benign interna-tional outlook. This view was underlined by the Chancellor when he said he thought the current round of interest rate rises in the leading economies was at or near its peak. Friday's US producer price figures highlighted how vola-tile the US inflation picture is. There may well be more than one extra leg in the US interest rate spiral; if that should lead the dollar to break out of its DM1.70 to DM1.90 trading range then the Bunde

Simon Holberton

US MONEY AND CREDIT

# Questions that challenge the bears

NOW THAT accelerating is rising far beyond even the 6 inflation has finally been per cent mark. The producer noticed by the conventional wisdom on Wall Street, could it be time to back away from longstanding bearish convic-

tions and say that the bond market is getting oversold? With the yield on the Trea-sury's long bond up to 9.3 per cent, it is certainly worth con-sidering the case that the next major move in interest rates will be down rather than up. One element of the case is very simple: 8% to 9% per cent have been the limits of a trading range which has prevailed for more than a year, since the aftermath of Black Monday. It has long been evident to many of the better Wall Street economists that underlying inflation was rising from 4 per cent to 6 per cent or so.

In fact it was this expects in fact it was this expecta-tion that last caused the bond yield to rise above the 9% per-cent mark, last August. Per-haps, then, after the current inflation hysteria has subsided, the markets will be ready for another roller-coaster ride around the 9 per cent mark. This figure is, after all, a reasonable long term bond yield when inflation is running at

around 6 per cent.
The trouble with this argument is not, as might be sup-posed from reading some newspaper headlines, that inflation

price index (PPI) grew at a yearly rate of 12.6 per cent in January and February, but this tells us as much about the past as the future.

The fact that producers and wholesalers waited until the new year to implement their price increases may have improved the 1988 inflation fig-ures and exaggerated the bond market's tendency to self-delusion, but analysts who followed the PPI data through tha stages of production, from raw goods to finished prices, could see inflation coming.

From this point of view, the

figures on Friday actually contained some hope. Finished goods' prices rose by 1 per cent in both February and January, price increases for intermediate products were 0.5 per cent, compared with 1 per cent the previous month, while crude goods actually fell by 0.1 per cent, after leaping by 3.9 per

cent in January.

It seems possible, therefore, that monthly PPI inflation will soon settle down again on a platean of around 0.5 per cent, or 6 per cent annually. So for short-term speculators

this might be a good time to put into practice the old trad-ers' adage about buying on bad

In the longer term, however,

US MONEY MARKET RATES (%) 9.62 9.13 9.63 9.90 10.00 US BOND PRICES AND YIELDS (%) NRI TOKYO BOND INDEX Decreber 1983 = 100 147.30 147.55 148.40 143.33 4.96

faster inflation is not the only cloud on tha bond market's horizon - there are at least two others which cast a darker

The first is that real bond yields in other countries are now higher than in America. Assuming US inflation stabilises at around 6 per cent, US bonds yielding even 91/2 per cent do not seem overwhelmingly attractive compared with German bonds yielding 7 per cent against an underlying inflation rate of 2% per cent, or even Japanese bonds yielding 5 per cent in an economy with

virtually no price inflation.

Over the past two years such comparisons have been rendered irrelevant by currency movements that have failed to reflect inflation differentials. In principle this could continue if monetary authorities throughout the world remained committed to currency stability at the expense of balance of pay-ment adjustment.

The longer the dollar is prevented from dapreciating against the yen and D-Mark in line with the differentials of inflation and productivity growth, the bigger the devaluation will have to be in the end. The US trade deficit has stopped improving and will, on present trends, begin to rise again towards the end of this year. Meanwhile the Japanese and West German surpluses are growing and the volume of Japanese exports is expanding faster than those of the US.

More importantly, as US inflation accelerates it should become apparent, particularly to the West German authori-ties, that stabilising the D-Mark against the dollar will mean repeating the mistake their predecessors made in the late 1960s and early 1970s importing a US-made inflation which will prove extremely costly to eradicate once it takes hold of the relatively rigid European labour market.

But even if the Enropean and Japanese Governments honoured their international commitment to continue importing US inflation, there would be another, more persuasive, reason to expect a devaluation of the dollar. Even-tually, Washington itself will want a lower dollar to reignite US growth.

The recent US production statistics suggest that the econ-omy may finally be slowing — and while the slowdown has been most evident in domestic

consumption, the compensating stimulus will be concentrated in the export sector when the time comes to boost

But surely it is premature to talk of stimulus when the US authorities are trying to slow down the economy, rather than speed it up? This raises the second reason for long-term pessi-mism about the outlook for

No US policymaker has any mandate to cause a recession in the name of fighting infla-

Indeed, the 2 per cent to 212 per cent gross national product growth rate which used to be cited by the Fed as a speed limit for the economy, should be seen as something more akin to a lower bound.

Yet without a more dramatic economic slowdown, it is unlikely that inflation can even be stabilised, never mind reduced in the long term. As Mr Robert Parry, President of the Federal Reserve Bank of San Francisco and one of the few genuine anti-inflation hawks left in the Fed, said in an interview this week:

"I am not convinced that a slowing in the economy will lead to a slowing of inflation. Anyone who believes that the worst is behind us on inflation or that a couple of quarters of 2 to 2½ per cent growth will lead to a reduction in inflation is misreading the case."

Politicai realities suggest that as soon as the economy decelerates to around this rate and inflation stabilises, there will be intense pressures on the Fed to start relaxing policy not least from Wall Street itself, since most investors are still wedded to the idea that a ball market in bonds and stocks, precipitated by falling interest rates, is just around the corner.

in the short run, of course any such relaxation would nnleash a powerful rally in bonds - though given the likely fall in the dollar, it might be better for foreign bonds than for the US variety. In the long term, however, the next decline in interest rates will probably ensure that 5 to 6 per cent becomes not a ceiling, but a floor, for US inflation in the

Anatole Kaletsky

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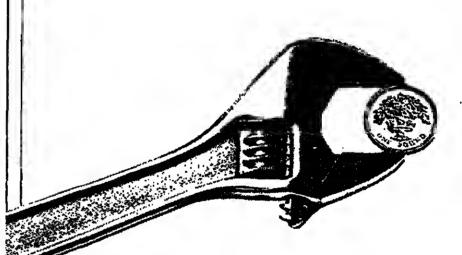
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# boosts its fight against bid profits hit

By Roderick Oram in New York

POLAROID has won a major court victory that significantly increases its chances of defeat-ing a takeover offer from Shamrock Holdings, the invest-ment vehicle of Mr Roy Disney,

the California businessman.

The Delaware Chancery
Court upheld plans by the photography group to buy back
some 22 per cent of its shares at \$50 a share for a total of \$800m, and to sell \$300m of additional stock to a friendly investment fund.

Ms Carolyn Berger, vice-chancellor of the court, also rejected Shamrock's request that she review her earlier approval of Polaroid's plans to increase its employee stock ownership plan (Esop). Both decisions increase Polaroid's voting power in a proxy fight at its annual meet-ing on May 9. Mr Disney heads



Roy Disney: setback in bid for Polaroid a group of 14 dissident nominees who, if elected, want to sell the company to Shanrock at \$45 a share, or \$3.1bn.

Shamrock, which owns 6.9 per cent of Polaroid's stock, said late on Friday that it would appeal against the court's decision to the Dalaware Supreme Court and seek a temporary injunction today to prevent Polaroid completing its share buy-back, which is

due to expire today.

Judge Berger said: "I remain unpersuaded that the employee stockholders constitute a monolithic block of voters who, for one reason or another. are constrained to vote for

are constrained to vote for management.

"Their apparently strong opposition to Shamrock is more likely attributable to distrust of its plans and displeasure with the price offered than to any underlying devotion to management. In short, the Esop votes do not, in my view, taint the election."

Turnover rose by 9.6 per cent, from BFr41.6bn to BFr45.6bn. The steeper rise in earnings reflects the speed at which an increase in output benefits a business with a high proportion of fixed costs. proportion of fixed costs.

The group sold 1.14m tonnes of wire and wire products worldwide, up from 1.07m tonnes in the previous year, while steel cord ontput advanced from 311,000 tonnes

record

By William Dawkins

BEKAERT, THE world's largest steel wire and cord maker, has unveiled a 26 per

cent recovery in 1988 net prof-its, more than making up for

its, more than making up for the previous year's drop.

The Belgian company's prof-its were a record BFr4hn (\$102m) in the 12 months to December, as against BFr3.2bn the previous year, or BFr2.3bn after a one-off restructuring

charge in 1937. It comes thanks to an "unusually favourable envi-ronment," in which demand

for all the group's products was strong, so that capacity utilisation was very high, said

to 353,000 tonnes over the same period.
Capital expenditure reached
BFr10.7bn, a significant
increase from the BFr5.9m

spent in 1987. The parent company, NV Bekaert, produced a swing from a 1987 net loss of

#### Hudson's Bay ahead

HUDSON'S BAY, Canada's strong fourth quarter in most of its store operations, bring-ing net profit of C\$49.2m (US\$41.1m), or 73 cents a share, for the full year to Jan-uary 31 1989, writes Robert Gibbens in Montreal. This com-

pares with a loss of C\$78.5m for the previous year.
Revenues: were little changed at C\$4.6bm. The Bay, controlled by the Thompson family, also reduced debt by C\$1.22m to C\$1.9bm.

# Court victory for Polaroid Recovery at Bekaert as Eastern Air puts jets up for sale

EASTERN AIR LINES, the seventh largest US air carrier presently strikebound, has put most of its fleet of 230 aircraft up for sale in a manoeuvre designed to increase pressure on its pilots' union and to generate sufficient cash to see it through the bankruptcy pro-ceedings that it began two

weeks ago. A spokesman said on Friday night that Eastern had sent tel-exes to other airlines around exes to other airlines around the world, as well as to aircraft brokers, inviting offers for about 170 Boeing 757s and 727s and McDonnell Douglas DC9s. There was no indication, however, that Eastern intended to sell all or even most of these aircraft immedi-ately, and company officials

depled that the proposal to dis-pose of aircraft was the first step towards the liquidation of Eastern Air.
Eastern spokesman Mr
James Ashlock said: "We have
said all along that we were

going to have to run a smaller, leaner airline. The plan is to see if we cen sell some of these aircraft to improve our cash flow." He added that Kastern was not offering to sell any of the more valuable wide-body aircraft in its fleet. These include about 60 Airbus A300s, Lockheed L1011s and Douglas DC10s.

Mr Frank Lorenzo, the chairman of Eastern's holding com-pany Texas Air, acknowledged publicly for the first time that he might resolve the Eastern

bankruptcy by selling what remained of the alrilne, instead of trying to revive it as a slimmed-down business within Teras Air. "It is possible that the most sensible way for East-ern to proceed would be with some different types of owner-ship," he said in e television interview on Friday night.

interview on Friday night.

Mr Lorenzo might wish to sell individual aircraft or sell the company in parts or as a whole. However, he would not have a free hand to make the have a free hand to make the decision. Any sales of assets would have to be approved by the Federal Bankruptcy Court in New York and could be challenged by Eastern creditors, including the unions, which have a financial interest in the

labour contracts and through their claims on the pension

n addition, potential buyers might be deterred by an unprecedented blacking agreement announced last week among the individual branches of the Air Line Pilots Association

of the Air Line Phots Assets.

The association said its members in other US airlines would boycott any sircists or routes acquired from Eastern unless the acquiring airlines hired striking Eastern pilota along with the assets they bought. Although there is widespread scepticism about widespread scepticism about its ability to make this threat stick, it could cause other US airlines to think twice about making.

# Whampoa resources side leaps

By John Elllott in Hong Kong

CAVENDISH International Holdings, the investment and natural resources arm of Hutchison Whampoa, controlled by Mr Li Ka-shing, unveiled a 42.1 per cent rise in consolidated net profits after the consolidated net profits after the consolidated net by the 188048 mm. tax amounting to HK\$948.9m (US\$121.7m) for 1988.

The company was formed in 1987 to split Hong Kong Electric from its non-electricity holdings. Mr Simon Murray, the chairman, said Cavendish had benefited from Hong Kong's bnoyant property sector and record number of incoming tourists, and from an upsurge in the colony's entrepot re-export trade with China.
Turnover increased from 
HK\$593.3m in 1987 to 
HK\$752.0m last year. A final 
dividend of 7 cents is being recommended making a total of

dividend of 7 cents is being recommended, making a total of 20 cents for the year.

The company's interests include a 34.3 per cent stake in Hong Kong Electric, which last week reported a 19 per cent increase in profits. It has half Hutchison's 43 per cent stake in Husky Oil of Canada whose profits were hit by falling profits were hit by falling

ing tourists, and from an upsurge in the colony's entrepot re-export trade with China.

Turnover increased from HK\$593.3m in 1987 to Murray said that the hotel's prospects were satisfactory. even though competition

would increase soon as new hotels opened in the colony. Cavendish's other interests include a one-fifth share of the 50 per cent stake held by Mr Li Ka-shing's companies in Hutchison CableVision, which is a leading bidder for the col-ony's planned cable television

BFr691m - after that year's restructuring costs - to a profit of BFr2bn, on turnover np from BFr26.4bn to BFr29.6bn.

# Manville to expand European business The company has \$1bn avail-

MANVILLE, the US glassfibre, forest products and speciality products group, is planning to expand its Enropeen operations, particularly through the development of a packaging arm. It has substantial funds to invest, and could make acquisitions or set up ioint ventures.

Manville makes paper-base packaging products in the US, notably corrugated boxes designed to carry cans, such as 12 to 24 can packs of take-home beer, and cartons for the food, pharmaceutical, and soap pow der industries. It also manufactures packaging machinery, such as a machine to put cans into the cardboard packs.

The company emerged from Chapter 11 protection last November when a method was devised for dealing with claims devised for dealing with claims arising from the group's for-mer asbestos business. Tha group had sought the sanctu-ary of Chapter 11 in August 1982. Chapter 11 is part of the bankruptcy law which gives protection from creditors while the company works to make itself viable again. Half of Manville's shares are

owned by two trusts which handle claims. They have convertible securities which would take their stake to 80 per cent. Manville is under pressure to create shareholder value for the trusts to meet claims.

able for investment and plans to spend much of that in Mr Tom Stephens, Manville's president and chief executive

officer, is in Europe this week discussing an \$30m multi-cur-rency loan being organised by bank holding company J.P. Morgan.

Manville has nine plants in
Burope, involved in its glassfibre and speciality products
businesses. Mr Stephens plans

to expend these interests and to build a packaging business. The latter plans to make beer can packs in Europe as it does in the US. Cartons are also a The primary aim is to build a business with critical mass, which Mr Stephens says means sales in Europe of \$100m. He helieves that only large, state-of-the-art. low-cost production plants are worth buying and that it can reach this critical

that it can reach this crimes, size faster through partner-ships or acquisitions.

Manville already supplies the raw material for boxes to independent European manufacturers, largely from its pulp and paper operations in Brank. The advent of the single market in 1992 is one reason for market in 1992 is one reason. for moving into production in Europe. The leading brewers are likely to buy packaging on a Europe-wide basis.

# Henderson Land advances by 126%

By John Elliott

HENDERSON Land Develop-ment, a leading residential property group controlled by Mr Lee Shan-kee, one of Hong Kong's wealthlest entrepre-neurs, has announced a 126 per cent increase in net profits after tax to HK\$735.57m (US\$94.3m) for the half year to December 31.

The large increase has been caused by the share of profits of associated companies soaring from HK\$56.08m in the six

months to December 1987 to HK\$572.50m following extensive restructuring.

Operating profit rose by 7.7
per cent to HK\$363.20m and

turnover from HK\$690.9m to HK\$772.12m. An interim of 11

cents was declared.

Henderson Investment,
which is 65.1 per cent owned by Henderson Land and was called Wing Tai until a group restructuring in August 1988, announced interim net profits

before exceptional items of HK\$164.2m, up by 73 per cent above the same period in 1987. Net profits, including excep-tional items from disposal of government land exchange entitlements and from sales in the restructuring, rose from the previous period's HK\$95.17m to HK\$1.17bn. The interim dividend is 4.5 cents. The company has a 26.4

per cent stake in Hong Kong

By Olli Virtanen in Helsinki

SAMPO, THE Finnish insurance company which has been e target of speculation recently, plans to increase its holding in Finansilaitos, the holding company that bought 25 per cent of Sampo stock on Wednesday, from 10 per cent to up to 20 per cent.

A larger holding is aimed at strengthening the ties between Sampo and the insurance companies Elake-Varma, Yrittajien Fennia and Teollisuusvakuntus, which are regarded as part of the Union Bank of Fin-land "family." Finanssilaitos is controlled by Union Bank of Finland and its associates. The holding company is Sampo's single largest shareholder with 25 per cent of the equity. Union Bank of Finland has a

7 per cent stake in Sampo while the Sampo Group's total holding in the insurance company amounts to 16 per cent. The linkage between Sampo and the three insurance companies will effectively end speculation over Sampo, as almost 50 per cent of the com-pany's stock is now placed in friendly hands.

# Sampo-Finanssilaitos link | Ascom wins Rockaway

By William Dullforce in Geneva

ASCOM, THE Swiss telecommunications group, has clinched victory in its \$110m bid for Rockaway, a US manu-facturer and distributor of mail handling equipment, after Rockaway shareholdera accepted an improved \$16 a share offer. This was 50 cents higher than Ascom's first bld. Last year Rockaway's turn-

over was \$59m after selling a small food services company during the year, and net earnings were about the same as the \$5.8m achieved in 1987. Ascom, formed in 1987 from the merger of Hasler and Autophon, is one of the five biggest manufacturers of telephone sets and radio systems in Europe. It also produces ser-vices automation systems and

26 15

hearing sids.
Group sales totalled
SFr2.4bn (\$1.5bn) last year, and
net earnings in 1987 were

Rocksway has been distri-buting Ascom's franking machines and other mail handling equipment through sub-sidiaries in Canada, the UK and Japan as well as in the US.

All these securities having been sold, this announcement appears as a matter of record only.



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Such rate of interest will be determined in accordance with the above formula not later than 5th April, 1989 and notified to

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Graville & Co. Ltd. 8 Loval Lane, London BCSR 1807 S Lovet Lane, London SCSR, She 01-621 1212

NOTICE TO THE HOLDERS OF WARRANTS TO SUBSCRIBE FOR SHARES OF COMMON STOCK OF DAUCHI CORPORATION Personnt to Chees: 4(C) of the Instru detect 18th June, 1967 under which Capitoned Warrant

Presume to the resolution adopted at the above meeting, the Company mathement of recollections of stance of its Continues Stack, to the shareholders in the records as of 20th March, 1989 played rister at the ratio of 10.50 me share her to me share held. As a result of such per one share held. DAIRCHI CORPORATION
By the Takai Bank, Limbut,
Lindon Branch
as Principal Physiq Agont

NOTICE TO ADVERTISERS

NEW FT FAX

Maws international pic Usdo! 150.000.000 8%%

Bonds due 1991

Convertible into Usdol 150.000,000 guaranteed floating rate notes due 1991

For the period from March 20, 1980 to June 20, 1980 the notes will carry an interest rate of 10½% per shanns with an interest amount of

NUMBER From Monday 20th

The Advertisement Trade Fax Number is

March

(01) 873 3062

# **UK COMPANY NEWS**

# Slowdown in house sales takes toll on Bellwinch

By Andrew Taylor, Construction Correspondent

RELLWINCH has become the field Hampshire. first housebuilder to display the scars from a sharp slow-down in house sales last

Pre-tax profits in the six months to the end of December tumbled by almost a half from

tumbled by almost a half-from £3.51m to £1.82m despite an increase in turnover from £17.16m to £20.92m. The interim dividend was maintained at 1.1p.

The decline in group profits reflected a £1.2m surplus from the sale of a former docklands warehouse which was included in the first half figures for the previous year. The latest figures showed a £200,000 loss from the cost of a public inquiry into a site at Peters-

Higher interest costs further reduced first half profits by 1721,000 (215,000). Bellwinch builds only in southern England unlike many

southern England unlike many of the housebuilders which recently have announced hig increases in profits from housebuilding. Housebuilding profits from Bellwinch during the six months managed to rise by 18 per cent to £2.76m despite a fall in the number of houses sold from 235 to 194.

Mr Robin King, chief executive said: "Prior to the market

tive said: "Prior to the market turning sour we had hoped to produce sufficient gains from housebuilding to offset the affect of the surplus made on the sale of docklands prop-

He said cancellations by pur-chasets during the first half had been running at the rate of one in every two reservations. The market had improved in the first two months of the second half with reservations higher than during the compa-rable period. The number of cancellations had declined but still remained higher than last

The company had reduced its building programms and had introduced financial incentives to encourage purchasers.
Mr King warned that the group
was unlikely to match last
year's record profits while
sales remained difficult to complete.

FT Share Service The following securities were added to the Share Informa-tion Service in Saturday's edi-

City of Oxford Inv. Zero Div.Pf. (Section:Investment Compass Group (Leisure) N'wide Bldg.Soc.12,2 pc.29.1.90

(Loans) Ross Catherall (Engineering)
Smirfit (J.) 94 pc.Cv.Un.Ln.(Paper,Printing). **Budgens** venture to accelerate openings

By Maggie Urry

BUDGENS, the supermarket However, doing so rapidly retailer formerly Barker and would prove impossible to Dobson, and Southend Property Holdings, a property group, is setting up a joint venture company to invest in and develop retail properties.
It will lease shops to Budgens. The move follows other

similar joint ventures between food retailers and property companies.

Budgens has 142 supermarkets at present covering half the UK market. It is committed the UK market. It is committed to sites in high streets which are avoided by the larger food retailing groups looking for bigger stores, often located on the edge of, or outside, town.

Mr Peter Lane, property director, says the group has the management capacity to double the number of stores.

With the help of the joint venture company, being called Southend Budgens Properties, Budgens would be able to accelerate its opening from the current 10-12 shops a year. This can be done off Budgens balance sheet. The property company will have the advantage of a guaranteed tenant when it takes on a shop or group of

shops.

The present intention is not to put any of Budgens' existing stores into the joint venture, although this could change.
The joint venture is expected to make development profits, and could eventually become large enough to be floated on the stock market.

# Rockwood buys in Canada

ROCKWOOD Holdings, the acquisitive USM-quoted distribution group, is expanding in Canada through the purchase of two companies for C\$ 6.25m (£3m) plus the repayment of loans totalling C\$ 1.15m.

Meadows Canada and Ahle Castoms Brokers, will be merged to form Rockwood International Freight Inc.

Meadows warrants annualised pre-tax profits of C\$ 240,000 to March 31 1989. Its net assets amount to C\$ 375,000. Able warrants C\$ 100,000 profits and has net assets of C\$ 100,000. Until December 1988, Meadows was part of the Walford Meadows Group, which was bought by Rockwood last June.

updated bulletins on your Board's recommendations in relation to the takeover bid by Minorco.

Telephone-free of charge-on 0800 444 999 to receive regularly

Consolidated Gold Fields PLC

SHAREHOLDER LINE

For an important message to all

Consolidated Gold Fields shareholders

TELEPHONE

Gold Paids PLG tother than N. J. Ogders Thompson and Mr. J. N. Clarke) me the persons responsible for the statement. To the best of the latest which have taken all as advertisement. To the best of the latest with have taken all the advertisement in the latest with the facts and

# UEI buys 21% stake in **United Video for S6m**

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UEI, the high technology

UEI, the high technology electronics and engineering group, has bought for \$5m (£3.5m) in cash a 21 per cent stake in Unitel Video, a US provider of post production services, television and video facilities and services.

UEI says Unitel Video is a useful entension to its existing sound and vision subsidiary. This comprises companies involved in digital image processing digital audio systems, electronics for cable TV systems, and computer-con-

per cent at \$14 per share, the price it is paying for its initial

stake.

Unitel'e recent performance has been hit by the strike at The Writers' Guild of America which occurred between March which occurred between March and Angust last year. In the year to end-August 1988, Unitel made pre-tax profits of \$2.2m (\$2.8m) on turnover of \$33.6m (\$26.7m).

Besides sound and vision, UKI has a wide range of inter-ests in the fields of text and graphics science and medicine

systems, and computer-con-trolled lighting systems.

It has also been granted an option to acquire a further 27 the half-year to end-July 1988.

# Estates & General ahead

PRE-TAX profit of Estates & General Investments, property developer and investor, rose by some 12.5 per cent in 1988, from

£2,71m to £3,06m.

The result included £300,000 (£700,000) exceptional profit. Without that, the percentage increase was nearly 37. Interest charges were substantially. Mr David Bloomfield, manag-

higher at £3.87m (£3.15m). ing director, said the net worth had more than doubled to £88m (£41m), following the £20m preference share issue, the £3.25m unquoted convertible preference issue, and substan-tial revaluation surplus. Fully came, to 1.6074p (1.2735p), and diluted net asset value was up. The interior dividend is up from 38 per cent of 267p per share. 0.175p to 0.26p.

Gross investment rental income rose 25 per cent to

Rarnings were 9.9p (8.5p) excluding exceptionals, and the final dividend is 2.3p for a total of 8.4p (3p).

# Thomas Walker

Thomas Walker, maker of metal smallwares for the clothing industry, raised pre-tax profits from £137,000 to £150,000 in the six months to December. 31; on turnover of £1.7m

# BOARD MEETINGS

**COMAC GROUP PLC** 

STRAUSS TURNBULL

SHARE CAPITAL

425,000

in Ordinary shares of 5p each

fully paid

COMAC GROUP PLC



ordance with the terms and conditions of the abovevioles notice is hereby given that the Rate of Interest has been fixed at 10.8125% per annum and find the interest payable on the relevant Interest Payment Date, September 20, 1989 against Coupon No. 14 in respect of U.S.\$10,000 nominal of the Notes will be U.S.\$552.64.

March 28, 1989, London By: Chibank, N.A. (CSSI, Dept.), Agent Bank CTTBANG

# THE NAME BEHIND THE NAMES (and still No. 1\* in Sterling Commercial Paper)



Dealer on £150,000,000 Sterling Commercial Paper Programme with US Dollar Option. E. Jan



Dealer on \$500,000,000 Sterling Commercial Paper





Dealer on £200,000,000 Sterling Commercial Paper Programme with US Dollar Option.



Dealer on unlimited Sterling Commercial Paper Programme for Unilever PLC.

TESCO PLC

Dealer on £150,000,000 Sterling Commercial Paper Programme.



BARCLAYS de ZOETE WEDD

# NFC sets £87m target as 'best view' for year

By John Thornhili

NFC, the freight and distribution group which was floated on the Stock Exchange last month, has delivered on its promise to announce a profit estimate for the current year.

Sir Peter Thompson, chairman, told ebout 2,000 share-holders at NFC's annual meet-ing in Brighton on Saturday that the board's "best view" of pre-tax profits for the year to September 30 1989 was £87m.

But the board warned that there were still more than six months of the year to run and "that many factors and circumstances, internal and external, do affect results."

NFC also announced its results for the first 12 weeks of the year to December 24. Prethe year to December 24. Fre-tax profits grew by 54.6 per-cent to £18.4m, compared with the £11.9m achieved in the 12 weeks to December 26 1987.

Turnover increesed to 5331.9m (5226.8m). Allied Van Lines, not acquired until the second quarter last year, con-



Sir Peter Thompson: usual type of AGM was pretty

tributed £2m to operating profit and £71m to turnover. Earnings per share rose to 4.1p

Speaking yesterday, Sir Peter said: "It was our usual type of AGM, which is pretty

unusual by any other stan-He said NFC had provided best view estimate before its flotation and would continue to do so. The reason why we have done this for the last three years is that we have always believed that any employees should be making

their investment decisions against the best information the board has, and that seems to me not to be a principle which should be confined to companies which are not gnoten.

Sir Peter said it was common practice for a company to issue profits forecasts when it was subject to a takeover hid, and "I cannot for the life of me think why that is not done when the company is not

The board estimated that turnover would rise to £1.54bn, against last year's £1.26bn. Earnings per 5p share were forecast to grow by 25.4 per cent to 17.8p (14.2p).

# Splash holders again urged to accept offer

By John Thornhill

printer and character mer-chandiser, urging them to accept the offer from Astra. The hidder says it has already received acceptances for just under 48 per cent of the Splash equity, and has bought an additional 2 per cent in the market.

# from Astra

Mr Theo Paphitis, chairman and chief executive of Astra Trust, has again written to the shareholders of Splash Prod-ucts, the beleaguered T-shirt printer and character mer-

The first closing date for Astra's offer is March 28.

# De La Rue in **US** holograms development

in annual profits, is to co-operate with a US company in the technical development of holo-

Ambiehurst, a De La Rue subsidiary, has concluded a technology licence agreement with American Bank Note Holographics for the sharing of technical resources and the development of holograms in

applications.

Each company will take a 20 per cent shareholding in the other, at a net cost to De La Rue of 25.7m.

M is likely to be accompanied by a capital-raising package designed to bring in working capital for the group, Shares in A & M are currently suspended However, the group's transport Recently, City and Westmin-ster Financial, the financial subsidiary has faced considerservices group headed by Mr

# falls to £4.1m

ended January 31 1989, as forecast, principally because of a decline in unit trust trading profits. As confirmation of confi-

10.5p, the final being 6.5p.
Pre-tax profit came to 24.07m, against the previous 25.57m. Fund management fe were £4.83m (£4.58m) and unit trusts £1.34m (£2.79m). Interest and dividend income rose to £1.38m (£975,000) but there was no realised investment gain this time (£575,000). Earnings were 16.9p (24.5p).

# An ingenious way out of the trap

Nikki Tait looks into the share interest of the Kerman family in the BS Group

SADORE Kerman, solici-SADORE Kerman, solicitor, property man and exchairman of the Tote, may be in his 80s, but he shows no sign of losing his business touch. By a highly unusual route, Mr Kerman and his family appear to have devised a manne of heaving a large manner of heaving a large manner. means of keeping a large measure of potential control over a listed company, while simultaneously satisfying the rules of the Takeover Panel.

The company in question is Bristol Stadium - now known as BS Group. Like GRA, another in a clutch of quoted companies controlled by the Kerman family until its reverse takeover of Wembley last year BS combines the last year, BS combines the roles of stadium proprietor and property developer.

It runs greyhound racing meetings four times a week at its Eastville stadium - which, it claims, makes it the busiest greyhound race track in the country. Its BS Properties sub-sidiary has been involved in commercial and residential development in the Bristol

area.

The problem of control goes back some way. The Kerman interests are split between Mr Kerman, his son Nicholas, a company called K Insurances, and the quoted Scotts Restan-

A & M Group, the furniture hire and film set provider, slumped to a \$384,000 pre-tax

loss in the six months to July 31, 1988. Because of its accumu-lated deficit, the company can-

The company made a loss of £19m in the year to January 31, 1988 and raised £28m via a

convertible loan stock issue as part of a rescue operation.

By Philip Coggan

not pay a dividend.

also have a controlling interest.

According to documents sent by BS to its shareholders, their combined stake in BS topped 30 per cent back in July 1884 - time and at the holder's option. In the recent time and at the holder's option. In the meantime, other rights attached to these shares would

oy as to us snareholders, their combined stake in BS topped 30 per cent back in July 1984 - the level at which the Take-over Code would normally require a full offer to be made. But the problem appears to have been compounded by the fact that somewats chara rem. arrached to these shares would be virtually identical to those of the voting shares.

The two deals were duly sat-isfied by the issue to vendors of non-voting stock units. As a result, the 61,728 non-voting shares ended up in the hands fact that aggregate share pur-chases by the concert party exceeded 2 per cent in a 12-month period, sometime between January 1986 and Feb-ruary 1988. This represented a further breach of Rule 9 – and further grounds for requiring a of the Kerman concert party. That still left the Rule 9

full offer. According to BS, the prob-lems came to light when it decided to buy some further interests from the Kermans last year. These comprised the isst year. These comprised the 51 per cent of Data-Tote which BS did not own and which was held by Scotts Restaurant, plus some woodland belonging to the Kerman family trust.

Discussions with the Stock Exchange duly ensued, says BS, and it became clear that any further conventional paper.

any further conventional paper consideration was not possible. Instead, a rather ingenious solution was put forward. Shareholders were asked to

approve the conversion of 81,728 unissued voting ordinary

transport division made a sub-stantial loss in the first half of 1988 and has continued to lose

money since.
Although A & M has sold its

51 per cent stake in video

group Harlequin and plans to

sell production services group BBRK, the company anticl-

pates that it has made a fur-

ther substantial loss since July 31. Net tangible assets are now

A & M incurs £384,000 loss

non-voting securities.
In agreeing to this alternative solution, the Panel accepted that the Rule 9 breach had been inadvertent. It also noted that a non-voting class already existed - albeit for not very long - and that the deal would require the approval of other shareholders. The Kerman concart party itself would be barred from voting on the scheme.

In fact, however, there are relatively few external share-holders in this tightly-held group. Aside from the Ker-mans, members of the Bristol-based Stevens family hold another major chunk of the equity - just under 40 per cent. Other shareholders number problem. In normal circumstances, any unintentional breach of Rule 3 would result in an obligation to sell down the holding below the 30 per cent level. But again, this alternative solution was extended;

less than 300.
Nevertheless, the potential which the move - approved earlier this month - could offer the the Kerman interests suggested that they switch a requisite number of shares into non-voting stock units instead.

P anel approval was duly won and a scheme put to shareholders earlier this month. Under it, the Kerman interests would convert 475 920 writing stock units (out Kerman family has not been lost on all of these investors. The point is made that there is The point is made that there is nothing to prohibit the Kerman interests from increasing their holding of voting shares hack to the 29.9 per cent limit. If they were then to convert their non-voting shares - obviously triggering a bid - they would have a holding of 40 per 475,920 voting stock units (out of a total holding of 1.14m) into non-voting stock units. The net result would be to reduce the Kermans' voting control from 33 per cent to 23 per cent, but

Last week, Mr Clarke Osborne, managing director of

ES Group, was not ruling out this possibility - though he said that he did not believe the Kar-mans planned any purchases at present. But, in selling down to 23 per cent of the voting shares, he acknowledged that they might have created "some leeway in the future."

sanwhile, the Stock Exchange — which Exchange — which exchange — which exchange — is only tangentially involved. It says the conversion of unissued shares into another class of equity is a matter which it would simply wish to know about and comment on. Once, however, an application to list any shares was made (if, for example, the non-voting units were converted back) its approval would be required. The document sent to shareholders says only that BS will use its "best. only that BS will use its "best endeavours" to have such shares listed in the event that any application to convert is

So it was left to Mr Osborne to sum up the situation rather neatly last week. The Ker-mans, he said, "don't want to sell and don't want to bid." They seem to have achieved just that; others can only look

# **CST Emerging Asia Tst** coming to main market

66 Order books

Turnover rose 6% but the hoped for

remain excellent 99

reports Ian B Church, Chairman

improvement in retail trading, on both sides of the Atlantic, failed to materialise in the second

Pretax profits fell from £5.87m to £5.47m but the

9.0p making a total of 12p (1987 — 11.5p).

All our UK factories had a good year and

produced higher profits.

Northampton factory.

Comparative results

Trading profit .

Profit before tax

Earnings per share

final dividend has been increased from 8.5p to

After a fairly flat start to the current year, retailing

1988

£m

65.32

6.40

5.47

33.4p

12.0p

1987

£m

61.54

6.69

5.87

35.3p

11.5p

has improved on both sides of the Atlantic. Factory order books are excellent and we have

again increased production at our main

CST Emerging Asia Trust, a new investment trust created to invest in developing coun-tries in South-East Asia, is coming to the main market via a placing worth up to £10m.

investment managers of the company are Tyndall Invest-ment Management (Asia), part of the international financial services company Tyndall Holdings, and Dao Heng Fund Management, both based in Hong Kong. CST, a newly formed Bermuda-incorporated company beneficially owned by Chariton Seal Schaverien, the stockbroker, and Tyndall, is investment adviser.

half year.

The initial strategy of the trust is to invest about one third of the assets in Hong Kong, one third in Malaysia and Singapore, and one third in the other markets of South

m the other markets of south Korea, Taiwan, Thailand, and the Philippines. Japan, Australia, and New Zealand will be specifically excluded.

Chariton Seal has conditionally placed, in units of five ordinary shares, at 50p each, and one warrant for shares. and one warrant, 6m shares and 1.2m warrants. But no applications are received for a further 4m shares and 800,000 warrants by April 4.

De La Rue, the security printing company which last month warned of a sharp fall

security, brand protection, packaging and promotional

# able costs in repairing and improving its vehicle fleet. The Arley tops £1m for year

THE EXPANDED Arley Holdings turned in profits of \$1.07m for 1988, after returning to the black at the halfway stage. It is paying the promised 2.2p final dividend for a total of

Profit of this maker and importer of photographic equipment was earned on turn-over of £13.78m, against a loss of £402,000 on sales of £7.64m. Earnings were 9.9p (loss 16.4p.) An encouraging start had been made to the current year and the restructuring of pro-duction facilities had started,

the directors reported. The new Photax audio visual division had been launched and they were optimistic about its impact on profitability.

Last August the company continued its expansion with the acquisition of Cine Screens and Nasa Marine for £9.44m in cash and shares. A rights issue helped towards the financing. Further acquisitions were

# Mallett expands

dane numuture and art dealer, increased its pre-tax profit from £2.35m to £2.7m in 1988, after allowing for a £107,000 exceptional charge in 1987. Turnover in 1988 rose 16 per cent to £10.15m. Earnings came to 1241p (11.65p) and the dividend is raised 10 per cent to 4.4p, with a final of 3p.

# **Edinburgh Fund**

Andrew Greystoke, revealed the terms of a reverse takeover

of A & M. If the deal, which

requires approval by A & M shareholders, goes through, Mr Greystoke will become chair-man and CWF will own 50 per cent of the enlarged

The reverse takeover of A &

Profits at Edinburgh Fund Managers fell in the year

dence in the future, however, the dividend is raised 1p to

Fund management accounted for 88 per cent of turnover in the second half.

# Klearfold rises to \$1.86m

KLEARFOLD, the US plastic packaging maker quoted on the main London market, reports an increase from \$1.86m in pre-tax profit for 1988, despite substantially higher interest charges.

Turnover in the year rose 10.5 per cent to \$25.24m. The directors said increased martines are contact packaging.

directors said increased marketing effort and strengthened sales force had given rise to an encouraging outlook for 1969. And the order book added to that optimism.

ncts and contract packaging. The consideration is \$200,000 cash, and Klearfold will contribute \$300,000 to the capital reserves. It will have the option to acquire the balance of shares for cash at any time Earnings in 1988 dipped to
11.9 cents (12 cents) after a
higher tax charge. The final
dividend is 3.9 cents to raise
the total to 5.7 cents (5.2 cents).
In pursuance of its policy to

# U.S. \$75,000,000



Banco Mexicano Somex S.N.C. Floating Rate Notes Doe 1991

In accordance with the provisions of the Piscal Agency Agreement between Banco Mexicano Somex S.N.C. and First Interstate Capital Markets Limited, dated as of 4th September, 1986 notice is hereby given that the Rate st Penod has been fixed at 11%% p.a. and that the interest payable on relative Interest Payment Date, 20th September, 1989 in respect of U.S. \$100,000 nominal amount of the Notes will be

Reference Agent

L.J. First Interstate Capital Markets Limited 20th March 1989

# **COMPANY NEWS IN BRIEF**

ASSAM-DOOARS Holdings is paying dividend of 11p for 1988 (10p). Pre-tax profit £558,000 (5657,000) and earnings 42.39p

(48.09p). CORPORATE ESTATES Properties is paying £2.3m for the 35 per cent profit share held by American Express Bank in a property deal dating from last

April.

GREYCOAT is placing 50m cumulative redeemable preference shares of £1, redeemable in 2014. The issue will have a coupon of 9.5% and be issued at 101.257p. GSM's offer to acquire Tyzack

received 76.9 per cent accep-tances and has been declared unconditional and will remain

open.
HEYWOOD WILLIAMS has acquired The Great Yarmouth.
Glass Company and Ipswich.

Glass for £1.39m. HICKING Harrison Lynx. Group is to acquire Data Mem-ories for £1.3m satisfied by the allotment of 6.5m ordinary val-

ued at 20p per share.
LONDON and Manchester
Group is buying Whitehall
Estates, estate agents of Camberwell, for £290,000 in shares.
LONDON AND St Lawrence Investment Company showed earnings of 1.449p for the six months ended February 25 1986 (1.208p) from gross revenue of £389,000 (£332,000). Asset value per share 115.75p (102.25p). NEW GUERNSEY Securities revenue before tax for 1988 was £38,867 (£18,103). Tax took £11,445 (£1,405). Earnings per share emerged at 1.4p (0.8p) before, and 0.7p (0.2p) after pre-liminary expenses. OIS GROUP is to be renamed

Brompton Group following acquisitions from Inspectorate UK Holdings, which will be allotted 8.6m shares, of which Mr Paul Bristol is buying 4m. As a result Mr Bristol will hold 40.2 per cent and Inspectorate 87.2 per cent. PRIEST MARIANS proposed

acquisition of Local London group will not be referred to the Monopolles Commission. TADPOLE TECHNOLOGY, an OTC traded company, reported pre-tax profits up from £348,000 to £462,000 for 1988 on turnover up from \$2.56m to £4.57m. The company is preparing to seek a laiting on a recognised stock exchang

TEXTRON said its offer for Avdel will close on April 24. TOPS ESTATES has purchased the freehold of Corby Town

# This advertisement is issued in compliance with the requirements of the Council of The International Stock Exchange of the United Kingdom and the Republic of Ireland Limited ("The Stock Exchange"). It does not constitute an invitation to the public to subscribe for or purchase any stock or shares.



Offer of 129,873,937 units of 450p each at par of Variable Call Guaranteed Convertible **Unsecured Loan Stock 1989** of Enterprise Finance 1989 PLC (registered no. 2320933) Guaranteed by

# Enterprise Oil plc

(payable as to 225p per unit on acceptance) automatically exchangeable into new Ordinary shares in Enterprise Oil plc

Application has been made to the Council of The Stock Exchange for the Stock to be admitted to the Official List

Listing particulars relating to Enterprise Oil plc and Enterprise Finance 1989 PLC are available in the statistical services of Extel Financial Limited. Copies are evailable for collection from the Company Announcements Office, The International Stock Exchange of the United Kingdom and the Republic of Ireland Limited, 46 Finsbury Square, London EC2A 1DD np to and including 22nd March, 1989 and may be obtained during normal business hours on any weekday (Saturdays and public holidays excepted) up to and including 3rd April, 1989 from Enterprise Oil plc, 5 Strand, London WC2N 5HU and from:

Shearson Lehman Hotton International, Inc., One Broadga London EC2M 7HA

S.G. Warburg & Co. Ltd., 2 Finsbury Avenue, London EC2M 2PA

 $\prec \lambda$ 

Cazenove & Co., 12 Tokenhouse Yard, London EC2R 7AN

The provisional letters of entitlement despetched to qualifying shareholders of Enterprise Oil plc, the Stock and the new Ordinary shares have not been and will not be registered under the United States Securities Act of 1933, as amended, and (except in the limited circumstances set out in the listing particulars) they may not, as part of their distribution, be offered, sold, renounced or delivered, directly or indirectly, in the United States or to US persons (each as defined in the listing particulars). 20th March, 1989

FINANCIAL TIMES STOCK INDICES

 
 Mar
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 1988/89
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 Low
 High ixed interest .... Ordinary .... Gold Mines FT-Act All Share .... 2073.1 2112.6 2121.2 2125.4 2103.0 2085.2 2125.4 1694.5 2443.4

# INTERNATIONAL DIRECT MARKETING

Prices taken at 5pm and change is from previous close at 9pm

Report and accounts will be posted to shareholders on 12th April 1989. Church & Co. PLC., St. James, Northampton NN5 5.JB.

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The Financial Times proposes to publish a Survey on the 18 April 1989

For e full editorial synopsis and advertisement details, please contact: Neville Woodcock

on 01-873 3000 ext 3365 or write to him at: nber Oue, Southwark Bridge Loudon SEI 9HL.

**FINANCIAL TIMES** 

# DnC Den norske Creditbank

U.S. \$150,000,000 **Floating Rate Capital Notes due March 1991** In accordance with the provisions of the Notes, notice is hereby given that for the six month interest Period from March 20, 1989 to September 20, 1989 the Notes will carry an Interest Rate of 10.6875% p.a. and the Coupon Amount per U.S.\$10,000 nominal of the Notes will be U.S.\$546.26 and per U.S.\$250,000 nominal of the Notes will be U.S.\$13,656.25.

March 20, 1989, London By: Cilibank, N.A. (CSSI Dept.) Agent Bank CITIBANC

# COMALCO FINANCE LIMITED US\$180,000,000

Generated Floating Rate Notes due 1993 Notice is housey given that for the interest period 20th March, 1989 to 20th June, 1989 the interest rate has been fixed at 1014%. Interest payable on 20th June, 1989 will amount to USS261.94 per USS10,000 Note.

Agent Bank: Morgan Guaranty Trust Company of New York London

NBD BANCORP, INC. Floating Rate Subordinated Notes due 2005 Notice is hereby given that for the interest period 20th March, 1989 to 20th June, 1989 the interest rate and the language of 20th June, 1989 will amount to US\$265.14 per US\$10,000 Note.

Agent Sank: Morgan Genranty Treat Company of New York London

SHARP CORPORATION

U.S. \$125,000,000

Agent Bank



NOTICE TO HOLDERS OF OPEAN DEPOSITARY RECEIPTS (EDR'S) IN

OTICE IS HEREBY GIVEN that a cash, vidend will be paid to shareholders of cord dase Merch 91, 1989. Furtheriors, it has been declared that the large will be traded excitividend on the passes Stock Endanges with effect on March 28, 1988. Subject to sprovid of the dividend, a farther too will be published, effer receipt of a dividend by the Depository, stating a smount and detail date of payment such dividend together with the readure to be followed for obtaining syment. Coupen No 17 will be used for sketched.

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Floating Rate Notes due March 1992 For the six months 16th March, 1989 to 18th September, 1989 the Notes will carry an interest rate of 10 % per annum with a coupon amount of U.S. \$552.19 per U.S. \$10,000 Note, payable on 18th

Bankers Trust Hankers Irust Company, London

# **DIARY DATES**

ciation. Association for Science Education, and Joint Council for Language Associations. (Room

Commons: Progress on remaining stages of the Water Bill.

Motion on Legal Aid and

Advice Regulations.
Lords: Debate on "The growth of non-elected bodies."

Debate on "Government social

policy, particularly young people, the poorly paid and the elderly."

Select committees: Foreign

BOARD MEETINGS-Finate: BSG Ind Banner Homes Semirose Bowthorpe

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# Trade Fairs and Exhibitions: UK

British Footwear Fair (01-739 2071) (until April 14) Exhibition & Con NEC, Birmingham IFSEC (01-868 4466)

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Corrent International Cycle & Leisure International Cycle & Leisure April 11-13
Fair (01-390 2211) (until March International Trenchless Con-

March 21-22 British Institute of Management Exhibition and Confer-Wembley Couference Centre March 24-25

Cash and Carry Fashion Fair (01.727 1929)

Kensington Town Hall, London

March 29-31

Fashion Fabrics Exhibition — FABREX (01-385 1200) March 30-April 5 British International Antiques Fair (021 780 4171)

Fair (01-940 6065) **Olympia** 

# Overseas Exhibitions

March 23-28 International Nuclear Technology and Instrumentation and Equipment Exhibition - NT & IE CHINA (01-229 2616) Beijing

March 30-April 9 International Household Fair
HUISHHOULDBEURS (01-741 4437) . Amsterdam

International Plastics and Rubber Industries Exhibition - CHINAPLAS

International Airport and

# **Business and management conferences**

March 20-21 Financial Times Conferences: Retailing in the 90's \_\_ The role of technology (01-925 2323)

Hotel Inter-Continental,

March 20 to OSI (01-868 4486) Queen Elizabeth II Confer-

ence Centre, London March 21-22 IPM Personnel Management Services: The acts of epmloy-lenges (010822 44763 73039)

ment (01-946 9100) Rubens Hotel, London March 22
The Institute of Economic Affairs: Tensions and opportunities in Britain's EC relation—

CBI Conferences/Direct Marketing Centre: Agenda for change (01-379 7400)

Centre Point, London

April 10-14 International Fire & Security Exhibition & Conference -

struction for Utilities Conference and Exhibition - NO DIG  $(0923\ 778311)$ Kensington Exhibition Cen-

April 13-15 Corporate finance show -VENTURE (0491 410222) NEC, Birmingham

April 17-21 International Maritime Exhibition - EXPOSHIP LONDON Rerbican Centre

Olympia April 23-26
The London International Furniture Show (01-370 8215) **Earls** Court

London International Book British Electronics Week (0799 2669)

> Aerospace Engineering Exhibition and Symposium (01-493

International Water Supply Exhibition (0923 778311) Berlin

April 15-23 Great April Fair (Milan 4997 298) Milan April 17-22

Office Equipment, Data Pro-cessing & Software Exhibition -SICOB (01-225 5565)

ships (01-799 3745) Queen Elizabeth Il Confer-

ence Centre, London March 30 HS Conference Studies/ Property Management: Property management - New solutions Blenheim Online: Introduction to current problems (01-985 382) Cavendish Conference Cen-

> EUUG: UNIX-European Chal-April 4 GBI Conferences/Direct Mar-

tre, London

Anyone wishing to attend any of the above events is advised to telephone the organisers to ensure that there have been no changes to the details published

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# PARLIAMENTARY

Commons: Conclusion of Budget Motion on Education (Grant

Maintained Schools) Regulations. Lords: Companies Bill, report. Motions on Legal Aid Regula-

Select committee: Environment: subject, British Waterways Board, Witness: Inland Water-ways Association. (Room 21, 5.15 p.m.)

Commons: Progress on remaining stages of the Water Bill.

Motloo on Scottish Rent Offices Orders. Lords: Security Service Bill, com-

# **FINANCIAL**

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COMPANY MEETINGS

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Trust of Property Shares, The Association of Inv. Tet. Co's, Park House, 16 Finatury Circus, E.C., 11.00

TVS Entertainment, Le Meridien Hose Piccastily, W., 12.00
BOARD MEETINGS.

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COMPANY MEETINGS-Meldrom Inv. Tet., Cayane House, 1 Thomas More Street, E., 11.30 Tace, Essent Indi, Essent Street, W.C., 11.00

Motions on Matrimonial and Family Proceedings Orders (Northern Ireland). Affairs: subject, the Sino-British agreement on Hong Kong. Witness: Sir Geoffrey Howe. (Grand Committee Room, Westminster Select committees: Education, Science and Arts: subject, supply of teachers for the 1990s. Wit-nesses: Royal Society, Engineer-ing Council, Mathematical Asso-Hall. 10.30 a.m.)

Trade and Industry; subject, financial services in the single market Services in the angle market. Witnesses: Consumers Association, Consumers in the European Community and Bifu. (Room 15, 10.45 a.m.)

Defence: subject, AWACS, off-sets. Witnesses: MoD and Boeing. (Room 16, 10.50 a.m.) Energy: subject, energy rela-tions with the Soviet Union. Witnesses: CEGB and UKAEA. (Room 8, 11 a.m.)

Agriculture: subject, land use and forestry. Witness: Forestry Commission (Room 18, 4 p.m.) Employment: subject, part-time work. Witnesses: Ms Linda Dickens, University of Warwick and Ms Olive Robinson, University of

Devices & Minicane Duncan (Nielter) & Go Emese Fitch-Tel Ployd Energy Gasisti Broadioom Gutdebouse Halle Homes & Garde Holders Tech Jones & Shipman Kleinwork Berson Lapone Inda Lendon Fornieling Co Alacairen-Glenkwet Mathema Gernard

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Do. 13/2% 1982 8.25pc.
Pilzer Inc. 55cts.
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TRURSDAY MEETINGSTRURSDAY MEETINGSTRURSDAY

THURSDAY MARCH 25
COMPANY MEETENGS.
Slick, The Howard Hotel, Temple #
Strand, W.C., 12.00
Dominus Printing Sciences, Cembridge
Moat House, Bar Hill, Cambridge,
Greenfier Inv. Co., 5 Finsbury Avenus,
2.30
Hoy 6 Croft, Cleziers Hall, 9 Mont
Close, S.E., 12.00
House Property Co. of Lender, E5 Mr.

Close, S.E., 1200
House Property Co. of London, 65 Holborn
Vladoct, E.C., 0.55
Selective Assets Tst., Caledonian Hotel,
Princes Street, Edinburgh, 12.00
Soundtrace, 55 Grassenor Street, W., 10.30
Sycamore Hidga, Piccadilly Hotel, Manchestur, 11.00
Vantage Securities, Knightabridge House,
197 Knightabridge, S.W., 4.30

Bath. (Room 20, 4.15 p.m.)
Foreign Affairs: subject, the Sino-British agreement on Hong Kong. Witness: Sir David Wilson, Governor of Hong Kong. (Grand Committee Room, Westminster Hall, 4.15 p.m.)
Home Affairs: subject, higher police training. Witness: Home Office. (Room 15, 4.15 p.m.)
Treasury and Civil Service: subject, the Budget. Witness: Treasury. (Room 8, 4.30 p.m.)

Commons: Adjournment debates. Lords Transport (Scotland) Bill, second reading. Motion for approval on the Evi-dence in Divorce Actions (Scotland) Order and motions on Mer-chant Shipping Regulations.

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SATURDAY MARCH 25
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SURDAY MARCH 26
DIVIDEND AND INTEREST PAYMENTSExchequer 124 % 1998 6. 125pc.
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Valic Group 9-2 % Dob. 2015 ABS/5pc.
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# **APPOINTMENTS**

# Music publishing moves

Inc was purchased in the US by THORN EMI last January for £137m (\$337m). The company has now been integrated with EMI Music Publishing Worldwide, with Mr Charles Koppelman appointed as chairman and chief executive officer, and Mr Martin Bandier as vice chairman of the combined EMI, SBK music publishing operation. Mr Koppelman and Mr Bandier were two of three co-owners of the privately held SBK Group. Mr Irwin Robinson becomes president and chief operating officer of the oew company. Mr Koppelman and Mr Bandier will remain in charge of the SBK Records label established as a joint venture between

■ Ms Pippa Leslie has joined TRAVEL FOR INDUSTRY as sales director. She was with Thomas Cook.

themselves and EMI Music in

conjunction with the above

■ SAC INTERNATIONAL has appointed Dr Hugh Metcalfe as a non-executive director from April 1. He was deputy chief executive (operations) of British Aerospace. He replaces Mr Raymond Whitfield who has retired.

■ Mr Harry Littlefair has joined the main board of PERSIMMON, York, as a non-executive director. He retired last year as vice chairman of Allied Dunbar Asset Management, and Allied Dunbar Trusts.

■ Mr Terry Banner has been appointed commercial director, and Mr Jean-Pierre Billiard becomes European director on the board of HYMAN.

Mr Ken Wheeler has been appointed group finance director of BROAD STREET GROUP. He was group

financial controller.

Mr Ernest Jones, formerly president of Stromberg-Carlson, GEC PLESSEY TELECOMMUNICATIONS' US telecommunications arm, has been appointed director of group business

development for GPT, based in Coventry. ■ Mr N.G. Brookes has been appointed a director of BRITISH-AMERICAN TOBACCO COMPANY.

**■ THORNTONS** has appointed Mr J. Coyle as a divisional director with responsibility for group business development. Mr N.J. Etchells. divisional managing director - retail, has been oppointed to the new role of divisional director responsible for European retail development. Until a new oppointment is made Mr Etchells will be responsible for both posts.

■ Mr John Graham has been appointed director of finance at EPSON (UK), Hemel Hempstead. He was with Coopers & Lybrand.

■ Mr John Girdlev has joined QUADRATRON SYSTEMS INC as vice president of European operations, based in London. He was with Memorex International,

■ CABANA SOFT DRINKS, Preston, a subsidiary of J.N. Nicholls (Vimto), has appointed Mr Barrie Bruce as managing director, northern division. He was with Schweppes.

■ Mr Alan Mills, president, GEC Canada, succeeds Mr Pat Sansom as managing director of OSRAM-GEC on July 1. Mr Sansom, who is retiring, becomes vice chairman to assist during the hand over.

■ Mr Ken Turnbull, managing director of Bechtel, UK, has been elected a senior vice president of parent company Bechtel Group Inc. US.



NATIONAL & PROVINCIAL BUILDING SOCIETY has appointed Sir John Sparrow (above) to the board. He was a director of Morgan Grenfell, and is deputy chairman of Short Brothers.

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TOA ELECTRIC CO., LTD. KOBE/JAPAN

SFrs. 30,000,000

11/4 % Guaranteed Notes with warrants 1989-1994

# Lead

# Banca della Svizzera Italiana

Manager:

Co-Managers: Nomura Bank (Switzerland) Ltd.: The Nikko (Switzerland) Finance Co., Ltd. Nippon Kangyo Kakumaru (Suisse) S.A. Mitsubishi Bank (Switzerland) Ltd. Sanwa Bank (Schweiz) AG Taiyo Kobe Finanz (Schweiz) AG Dai-Ichi Kangyo Bank (Schweiz) AG Tokai Finanz (Schweiz) AG Bank of Tokyo (Schweiz) AG The Industrial Bank of Japan (Switzerland) Limited Attel & Cie. SA Banca del Gottardo

> Banco di Roma per la Svizzera Bank Cantrade AG Bank Julius Bär & Co. Ltd. Bank Leu Ltd Banque Paribas (Suisse) S.A. HandelsBank NatWest S.G. Warburg Soditic SA Swiss Volksbank

Unigestion S.A. NEW ISSUE - This announcement appears as a matter of record only - February, 1989

FUJI TEKKO CO., LTD. KOSAI CITY, JAPAN

SFrs. 20,000,000

1/20/0 Convertible Notes 1989-1993



Lead Manager:

Banca della Svizzera Italiana

Co-Managers: Yamaichi Bank (Switzerland)

The Industrial Bank of Japan (Switzerland) Limited

Fuji Bank (Schweiz) AG

Taiyo Kobe Finanz (Schweiz) AG

Kyowa HB Finanz AG

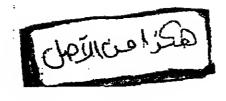
Yasuda Trust Finance (Switzerland) Ltd. Chuo Trust Finance (Switzerland) Ltd.

NEW ISSUE - This announcement appears as a matter of record only - March, 1989

# FT UNIT TRUST INFORMATION SERVICE

B Current Unit Trust Prices are available on FT Cityline. To obtain your fi Unit Trust Code Booklet ring the FT Cityline help deak on 01-925-2

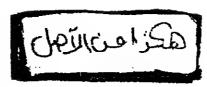
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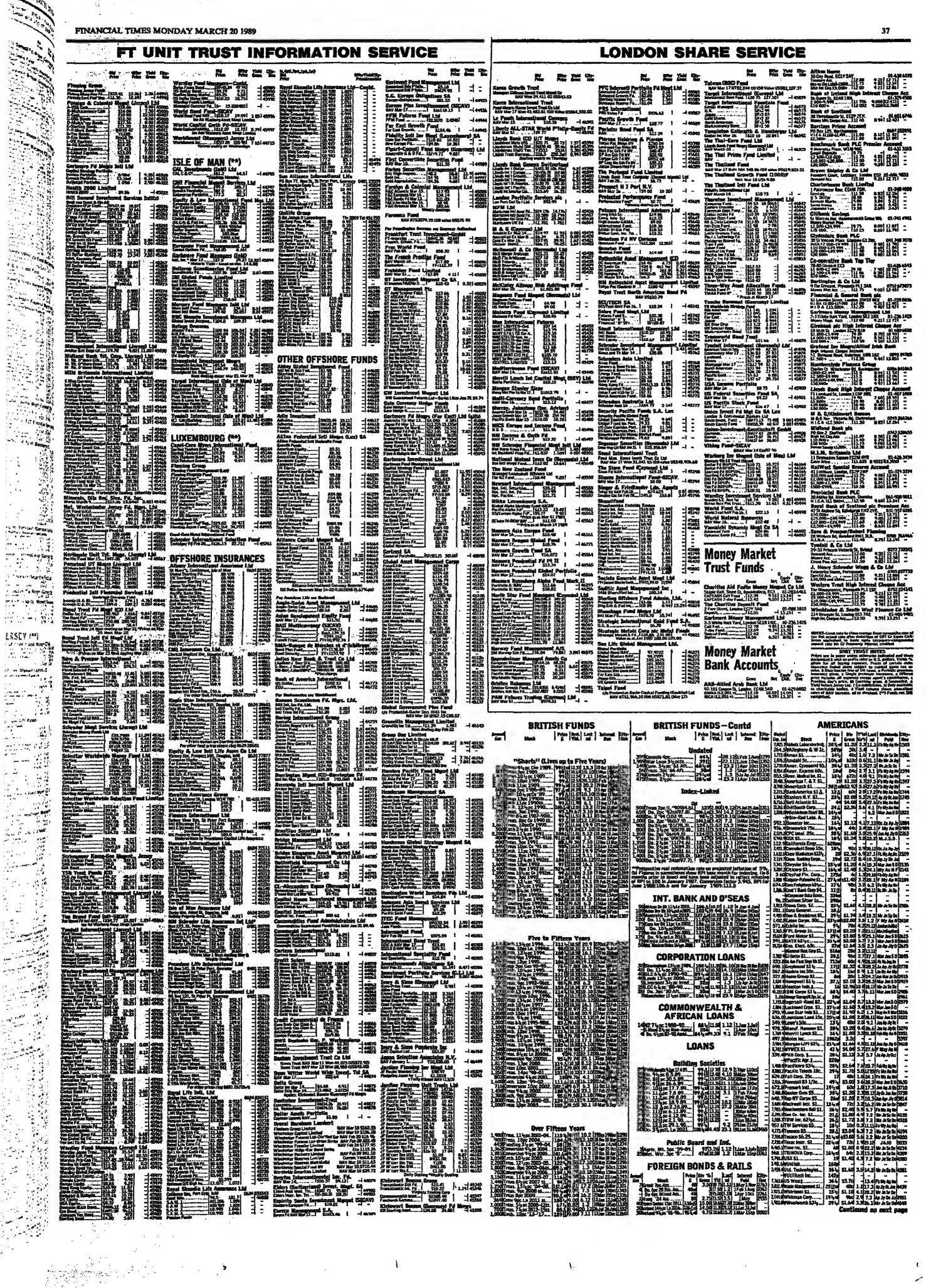


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FINANCIAL TIMES MONDAY MARCH 20 1989	<del></del>
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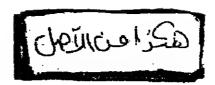


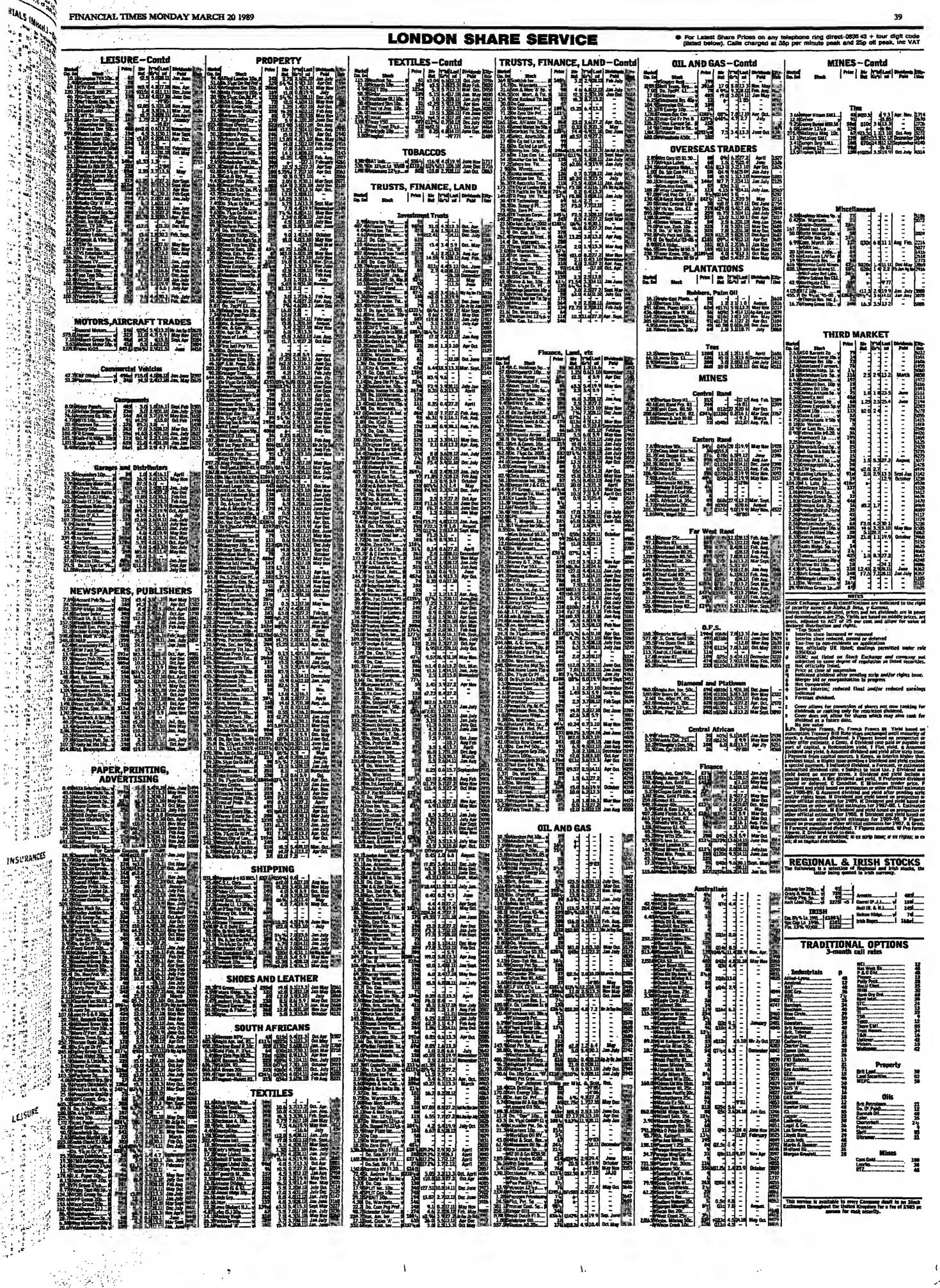


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# CURRENCIES, MONEY AND CAPITAL MARKETS

# **CURRENCIES AND MONEY REVIEW**

# A wet eye follows a dry Budget

prices indicate that base rates could be down to 12 per cent.

Conservative Party policy for

the next election, and the real battle against inflation will be

fonght on the foreign exchanges, according to Mr Roger Bootle, chief UK econo-mist, at Greenwell Montagu.

The Chancellor expects infla-tion to peak at 8 per cent, fall-ing to 5½ per cent by the end of the year and to 4½ per cent next year. The City is sceptical

that this will be achieved, but

"SHOW ME a man with a dry eye and I'll show you a man with no soul" said the com-mentator on BBC Television after Desert Orchid, Britzin's favourite horse, won the hlue riband event, The Tote Gold Cup, at the Cheltenham National Hunt Festival on

Thursday.
It sums up the feeling in the City on a dull and rain swept day, when there was very little else to cheer about. As "Des-sie" battled across the line long gilt futures rose two ticks on the Liffe market, to 98-13 bid from 98-11 bid, and dealers could find no other explanation

for the rise.

Thursday had otherwise not been a very encouraging day, as a batch of economic figures and particularly rising wage costs - suggested inflation remains a major problem for

the Government. The Budget on Tuesday was obviously framed with this in mind. It was described as the Budget the city wanted, but hardly dared expect. It has not

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EXCHANGE CROSS RATES

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# **MONEY MARKETS**

# US producer prices send shivers round the world

SHIVERS RAN through the Fed chairman, was financial markets on Friday, following a much larger than expected rise in US producer lina. expected rise in US producer prices. It had been hoped that the US Federal Reserve and the West German Bundesbank would wait to see if the last round of interest rate increases has slowed inflationary pressure, but Friday's news came

A rise of 1.0 per cent in Febtuary US producer prices was equal to the increase in January, and well above market forecasts of around 0.4 per

Share prices fell sharply on Wall Street and in Europe as markets braced themselves for a further round of monetary tightening. Bonds were also weak, but the dollar rose in expectation of higher US interest rates. Unsubstantiated rumours

circulated that the Federal Open Market Committee held an emergency meeting, although Mr Alan Greenspan,

Central banks in Europe and the US Federal Reserve intervened to cap the dollar's rise,

UK clearing bank base leading rate 13 per cost from Herescher 25

but only succeeded in holding it below DM1.88. It had previ-ously been assumed that the central banks did not want to see the dollar above DM1.87. The weakness of the D-Mark against tha dollar increased fears of higher German inter-est rates. Three-month Euro-

Euromarks by & per cent to 6%-6% per cent. In London interest rates moved up about % point, with three-month interbank offered at 13% per cent, compared with 13 per cent before the US

dollars rose % point to 10%-10% per cent and three-month

This advertisement is issued in compliance with the requirements of the Council of The International Stock Eachangs of the United Kiopdom and the Republic of Ireland Limited. Application has been unde to the Council of The International Stock Including for the great of permission to deal, in the Unlisted Securities Market, in all Ordinary Shares of 2½p each of Gifer pic, including the 80,000,000 new Ordinary Shares to be issued in connection with the mental with Persual Group Limited. It is emphasised that no application has been made for these securities to be admitted to listing.

CIFER ple (to be renamed FERRARI HOLDINGS PLC) (Registered in Hugland No. 1063899 perated under the Companies Acts 1948 to 1967)

MERGER WITH FERRARI GROUP LIMITED

INTRODUCTION TO THE UNLISTED SECURITIES MARKET

# if it is the Government would produced any great incentive to trade in fixed interest rate instruments however.

then be in a position to provide tax cuts and push interest rates lower in the run up to an election, which many expect to

Unless the pound comes under pressure the volume of trade in short sterling futures on Liffe could be low in the next few months. Prices point to a cash Libor rate of over 13 per cent at delivery in June. On domestic grounds there is probably no need for UK base rates to increase further following the Budget, but if defence of sterling is paramount a rise could be forced on the antibody in London Lycettent Book in London per cent at delivery in June, and 12½ per cent in Septem-her. Not until December do Investment Bank in London has forecast that base rates The clear message from the Budget is that sterling will not be allowed to fall. Reducing inflation is a cornerstone of could go np to 15 per cent if there is pressure on the pound from higher US and West German rates.

Fear that the Federal Reserve will further tighten its monetary stance increased on Friday after a rise of 1 per cent in US producer prices, more than double the expected fig-ure. With the D-Mark weak, the Bundesbank may be only waiting to see whether recent monetary tightening has been sufficient to contain inflationary pressure.

CURRENCY MOVEN

Back of England lodes	Morgani Georges %
96.3 102.0 106.5 105.5 105.7 112.5 106.7 109.8 99.2 97.2 147.6	-15.3 -10.1 -1.0 -49.7 -6.3 -2.1 +20.3 +16.3 -15.4 -25.3 -40.3
֡	96.3 68.3 68.3 102.0 106.5 105.4 102.7 112.4 106.7 109.8 99.2 97.2

One fact the markets have been slow to take note of is that the Bank of England is more concerned about sterlings value against the dollar than the D-Mark. If asked the current exchange rate dealers tend to reply DM3.21 and not \$1.7150, because of the change in psychology over recent years, upgrading the impor-tance of the German currency.

Keeping the pound strong against the D-Mark has a very slow impact on inflation oow slow impact on inflation ocuever. It may squeeze company
profits and depress wage rises,
but latest figures on wage costs
are not even very encouraging
on this score. On the other
hand by holding sterling
strong against the dollar it also
reduces the level of imported
inflation, by keeping down the
price of raw materials. If sterprice of raw materials. If sterling does need support the Bank of England is more likely to direct it at the dollar than the D-Mark.

Colin Millham

LENTS	OTHE	R CURRE	NCIES
Morgan	Elar 17	£	\$
Generaty Change 7:  -19.3  -10.1  -10.1  -10.7  -6.3  -21.1  -20.3  -11.4  -20.3  -11.4  -20.3  -11.4  -20.3  -11.4  -20.3  -11.4  -20.3  -11.4  -20.3  -11.4  -20.3  -11.4  -20.3  -11.4  -20.3  -11.4  -20.3  -11.4  -20.3	Argestins Anstralu Anstralu Brazil Finland Greece Horn Kons Inan Konstina Longobourg Mategrab Menco M. Zeeland M. Zeeland S. Al (Fe) S. Al (Fe) Talvan U.A.E	2.7840 - 2.7890 6.4215 - 6.4275 8.3205 - 1.3763 4.3756 - 4.3765 4.9725 - 7.0655 46.90 - 47.15 6.2890 - 6.2945	42.7000 - 41.8000 1.2201 - 1.2213 0.9952 - 1.000 4.2802 - 4.3200 1.55.90 - 158.45 7.7965 - 7.7965 67.591 - 67.591 92.7530 - 2.7530 27.730 - 2.7530 27.730 - 2.7530 1.5765 - 1.4550 1.5765 - 1.4550 1.5
		"Scilley rate	

Mar.37	Day's spread	Close	One promise	74 p.a.	Three snowing	22	
ics	1.7110-1.7200 2.0490-2.0545 3.614-1.66 67.10-67.50 1.2504-1.255-1.2005 1.2005-1.2005 3.204-3.22 23.100-244.95 191.66-2.00.50 2553-22614-1.1704 10.854-10.895-1.1704 10.854-10.895-2.244-2.254-2.275-2.264	17130 - 17140 20510 - 20520 362 - 353 67 20 - 67 30 12.529 - 12.539 12.000 - 20130 2714 - 1214 23.50 - 24.50 20.00 - 20130 27589 - 23599 10.65 - 10.784 275 - 10.784 275 - 22.62 2757 - 22.62 2757 - 22.62	0.40-0.35cpm 0.24-0.12cpm 2-1.3cpc 31-25cpm 55-5cpsm 0.55-0.50ppm 13-1.5cpm 13-1.5cpm 13-1.3cpm 13-1.3cpm 13-1.3cpm 13-1.3cpm 13-1.3cpm 13-1.3cpm 13-1.3cpm	2.66 1.05 6.41 5.00 5.03 6.77 0.76 1.36 0.76 1.37 1.38 8.37 7.31	1.07-1.170m 0.42-4.25cps 5-y-5-4-ps 23-7sps 14-y-13-ps 14-y-13-ps 5-13-ps 5-13-ps 4-2-ps 4-2-ps 4-2-4-ps 4-y-4-ps 2-3-y-4	2.60 5.97 4.54 4.63 6.63 6.63 6.79 6.79 6.79 6.79 6.79	

May.37	Day's	Close	Ger most	7.	There	7.
	Spread	COL	OR PORC	2.2	months	92
1K1	1.7119 - 1.7200	1.7130 - 1.7140	0.40-0.36cpm	2.66	1.07-1.03pm	2.
relaud?	1.4280 - 1.4295	1.4280 - 1.4290	0.31-0.36cds	-1.60	0.86-0.96dfs	-5
	1,1930 - 1,1975	1.1965 - 1.1975	0.14-0.18cdk	-1.60	0.51-0.5745	454
cito lans.	2,1055-2,1200	21155-21165	0.65-0.62mm	3.60	1.78-1.74pm	7
Polipis	39.05 - 39.35	39.20 - 39.30	8.00-6.00cpm	214	21.50-19.00pm	5
COUNTY	7.274 -7.324	7.31 - 7.31 \	1.45-1.70o-com	217	3.65-3.35om	. 3
V. Gornany		18755-18765	0.66-0.620-0	2.07	180-125	. 5
oringal	1582 - 1544	1541 - 1545	Z2-42mm	154	75-1256s 53-58/k	1
(Cab)	13703 - 13773	13764 - 13774	13-17cds 1-90-2-400-cds	1.07	6.90-7.4001	. 2
	679-682	CEUL ARI	0.75-0.60pm8s	LIV	1.75-2.0545	- T
erway	632-636	6.35-6.35%	0.92-0.8box	1.67	2.40-7.30	ĩ
	638-6414		0.45-0.65ermin	-103	150-175ds	-10
	130.85 - 131.85	131 5 131.65	0.64-0.61	549	183-180	5.
miria	1313 - 1318	1118-11184	4.35-3.95grapm	3.77	12 30 11 10	ĩ
estantant.	16035 16205	16160-16170	015061000	468	1 87-1 83cm	4

NEW YORK			Tressur	Bills and	Bonds	
(4;pvrl) Prime rate Groter lean rate Fed, funds Fed, funds at, interventio	_ nt	he posth To seeth Bret spoth Ex posth Der year		913 Far	767 167 767	9.75 9.69 9.64 9.56 9.48
Mar.17	Overwight	One Month	Two Months	Three Months	Stx	Lorder's later vention
Frankfert. Paris . Zurick	5,805,70 81,84 437,650 121,134	15-48-4-15-48-15-5	6,206,35 8µ-88 73-84	640-6-55 B2-9 51-51 677-6-67 48-48 121-134 8-85	6.70 4.85 9.91 <sub>5</sub> 81 <sub>2</sub> -81 <sub>4</sub>	7.25

Mar.17	Oversight	7 days notice	Month	Mosths '	Sh: Nonths	Year
nterbank Offer	14 124	134	124	131 121 131 121	121	135
eterbank Bld	124	12%	124	12/2	123	127
iterling CDs			123	15	13	124
ocal Authority Deps	12%	127	13	125	12%	123
ocal Authority Bonds		12%			-	-
Iscount Mkt Deps	1312	15.4	123	121	1011	1216
ompany Deposits		-	126	120	础	强 .
leance House Deposits		-	125	144	1415	152
reasury Bills (Buy)	- 1	-	1 120	145		
and Bills (Buy)	1	- '	75.55	154	140	
ine Trade Blils (Buy)	- 1	-	131	16.6	-21	10.00
offer CDs	- 1	-	10,20	10.35	10.65	10.95
DR Linked Dep Offer DR Linked Dep Bid	- 1	-	9-1	29	82	84
CU Linked Dep Offer		-	82	82	82 1	82
CU Clarked Dep 8td			82	22	7.7	Q1.
CO CHINES OCH CHI			0.2			-74

discount 12.4000 p.c. EGSD Fixed Rate Sterling Export Presence, Make up day February 28, 1999. Supered rates for seriod March 25,1999 to Auril 29, 1999. Schwere 1: 13.90 p.c. Schwere 18, 1999. Schwere 1: 13.90 p.c. Schwere 18, 1999. Schwere 1999. Schwere 18, 1999. Schwere 1999. Sch

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ENGLAND TO	EAGIIDY BU	I TEND	-
	DISON'I DI		
Mar.17   Mar.10		May 17 (	N= 10
		1	
	motic comes reported to the se- reference banks at 11.00 a.m., othe Bank, Banque Nacional o	offer 10.1 bit 10.1 motile many rounded to the manyer one-obstreams, of the reference banks at 11.00 a.m. each working say. The banks Bank, Banque Mattenal de Ports and Riergus Gas. ENGLAND TREASURY Bit	offer 10.3 bid 10% offer 10 matte cours rounded to the names one-obstants, of the bid and offered rates reference banks at 11.00 a.m. each working day. The banks are Rational W side Bank, Banque Rational de Ports and Rengan Generally Time.  ENGLAND TREASURY BALL, TENDE

FT LONDON INTERBANK FIXING

		17   Har 10	REASURY BIL		
					3   N=10
#5 on offer	£100	ELDOM	Top accepted rate of discount	12 4341	7-12-37399
otal of applications Staf Allocated	550c	a [419	person in the contract	12,4000	2.3508
letrem accepted bid		00 E87 212	Arrestage yield	PZ 7956	×12.7432
ictment at minimum level	149	44%		-	1
WEEKLY C	HANG	E IN W	ORLD INTER	EST R	TES
DMDON	Mar.17	charge	NEW YORK	Mar.17	diam'r.
Back rates	13 13 12 4000	Undre	Prime rates	112	Dech's
day feterlank	134	*	Federal Funds	9.16 9.29 10.35	+0.11 +0.13 +0.20
cetary Bill Teader	12.4000	+0.0192	6 Sith. Treasury Birls	4.10	1 1314
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One month Bills.	楚	+3	Operate laterizant	84	Ť
larte month Bills	44	4	. Tippe month	25	-
RUSSELS One month			MILAN		
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ESTEROASI	-4	- 10			
Dec wath	6.61 6.82	-0.19	Ger mouth	72	Unch'd
Tirte stock	6.82	-0.16	Terre month	74	Here's

# FT-ACTUARIES WORLD INDICES

Jaintly campiled by The Financial Times Limited, Goldman, Sachs & Co., and County NatWest/Wood Mackenzie in conjunction with the Institute of Actuaries and the Faculty of Actuaries

NATIONAL AND REGIONAL MARKETS		FRIBA	Y MARCH 1	7 19 <del>89</del>		THURS	DAY MARCH	16 1989	D	MLAR IND	EX:
Figures in parentheses show number of stocks per grouping	US Dollar Index	% Change Since Dec.30 88	Pound Sterling Index	Local Currency Index	Gross Olv. Yield	US Dollar Index	Pound Steriling Index	Local Currency Index	1988/89 High	1988/89 Low	Year algo (approx)
Australia (89)	138.33	-4.3	119.69	112.31	4.88	138.19	119 26	112.50	157.12	91.16	116,18
Austria (18;	104 74	49.2	90.63	101.96	2.47	103.56	89.37	. 100 67	104.74	83.72	90 51
8elaum (63)	131.14	-2.9	113.47	127.59	4.06	131 13	113.16	127.25	139.89	99.14	234.03
Canada (125)	134.91	+7.5	116.73	116.94	3.27	136.33	117.65	117 97	1.37.27	107.06	121.20
0enma-k 1291	169.09	-0.8	146.31	168.17	1.87	169 26	146.06	167.93	180.38	111 42	118 66
Finland (26)	143.27	+9.5	123.96	129.29	1.42	141.19	121.84	128.95	147.07	106.78	321.29
France (130)	114 11	-0.8	98.73	113.71	2.87	115.87	99.99	115.19	119.98	72.77	85.25
West Germany (102)	83.85	4.7	72.55	81.78	2.32	84.07	72.55	81.79	90.4D	67.78	80.79
Care Kare (24)	132.18	+18.2	114.37	132.32	3.67	132.85	114.65	133.01	133.77	84.90	101.82
Hong Kong (441	144.77	149.5	125.26	142.80	3.57	144.67	124.85	142.80	146.46	104.60	119.79
	80 52				2.45	80.42	69.40	82 47	86.88	62.99	81.74
Italy (98)	185.73	-5.4	69.67	82.81	0.48	187.53	161.83	155.52	200.11	133.61	165.74
Jacan (356)		-3.0	160.70	154.50				170.19	160.79	107 83	120.35
Malaysia (36)	160.79	+12.0	139.12	170.54	2.65	160.49	138.50			90.07	146.71
filexico (13)	165.75	+2.4	143.42	430.41	1.19	163.07	140 73	422.92	182,24		
Netherland (39)	115.44	+2.7	99.89	111.49	4.53	117.71	101.58	113.46	117.71	95 23	109.17
New Zealand (24)	70.59	+4.4	61.08	60.95	6.32	70.99	61.26	61.32	84.05	63.32	78.36
Norway (26)	170_37	+22.6	147.41	157.48	1.80	171.65	148.13	158.61	174.29	98.55	118.93
Singapore (26)		+18.0	127.73	131.97	2.06	147.56	127.34	131.71	147.62	97.32	113.49
South Africa (60)	140_32	+20.1	121.41	125.20	4.01	140.41	121.17	124.01	140.41	. 98.26	154.17
Spain (42)	146.45	-13	126.72	129.53	3.72	147.04	126.89	129.72	164.47	130.73	146.17
Sweden (35)	157.69	1 +9.0	136.44	149.34	2.28	157.36	135.80	149.15	158.38	96.92	119.40
Switzerland (57)	75.69	-3.1	65.49	75.86	2.29	75.91	65.51	75.81	86.75	74.13	85.66
United Kingdom (314)	148.40	+9.7	128.40	128.40	4.31	151.56	130.79	130.79	153.33	120.66	139.69.
USA (568)	119.18	+5.3	103.12	119.18	3.65	121.84	105.15	121.84	121.90	99.19	110.47
U3A COO	117.10	_ +33 [	103.12	117.10	3.65	121.04	103:23	422.07			
Europe (1006)	118.30	+3.1	102.36	109.44	3.54	119.85	103.43	110.61	120.88	97.01	110.53
Nordic (126)	148.95	+6.7	128.88	146.82	2.00	148.73	128.35	146.72	149.38	95.22	110.57
Pacific Basin (675)	181.46	-2.6	157.00	151.52	0.70	183.13	158.04	152.49	194.72	130.82	161.27
Patric Oasin (D/3)					1.57	157.84	136.21	135.76	164.22	120.36	140.99
Euro-Pacific (1681)	156.21	-0.9	135.16	234.73		122.61		121.63	122.71	99.78	111.05
North America (693)	120.02	+5.4	103.85	119.06	3.62		,105.81				
Europe Ex. UK (692)	99.73	-1.8	86.29	97.68	2.88	100.35	86.60	98.07	103.11	80.28	92.43
Pacific Ex. Japan (219)	130 27	+4.6	112.71	114.02	4.30	130.45	112.58	114.33	137.65	87 51	107.37
World Ex. US (1879)	155.32	-0.5	134.39	134.17	1.54	156.92	135.42	135.18	162.77	120.26	140.25
World Ex. UK (2133)	140.64	+0.4	121.68	129.15	2.04	142.50	122.97	130 63	146.04	111.77	127.68
World Ex. So. Af. (2387)	141.32	+1.1	122.28	129.10	2.24	143.31	123.67	1,30.68	145.65	113.26	128.69
World Ex. Japan (1991)	120.05	+4.7	103.87	115.89	3.62	122.13	105.39	117.78	122.37	100.00	110.99
The World Index (2447)	141.32	+12	122.27	129.07	2.26	143.29	123.66	230.63	146.52	113.37	128.73

Base values: Oec 31, 1986 = 100; Finland: Dec 31, 1987 = 115.037 (US S index), 90.791 (Pound Sterling) and 94.94 (Local); Nordic: Dec 30, 1988 = 139.65 (USS Index), 114.45 (Pound Sterling) and 123.22 (Local).
Copyright, The Financial Times Limited, Goldman, Sachs & Co., and County NatWest Securities Limited. 1987 Irish market closed March 17.

**EUROPEAN OPTIONS EXCHANGE** 11,236 F1,240 F1,250 F1,250 F1,266 F1,270 F1,280 27739974419 7042774 55 170 277 1066 927 1687 420 350 246 942 2249 1352 480 21 36 \$.50 2.60 1.10 0.40 1.80 4.80 7.20 10.50 11 6.50 2.80 919 1054 378 65 307 1889

214 184 51 150 31 40 9 40 9 40 180 112 2.70 A B 2.75 A 2.55 A 154 29 TOTAL VOLUME IN CONTRACTS : 99,076 LONDON RECENT ISSUES

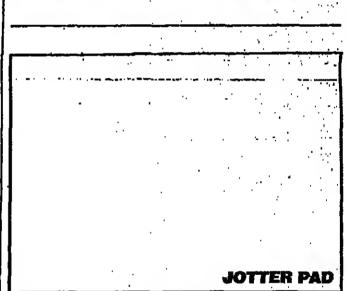
EQUITIES 1100

isse: Price	Attend.	Latest	1988/89		Stock	Clasing Price	+-
£		Date	High	Low		E	
100s 110s 110s 101s 100s 100s 100s 100s	######################################	3/4	100 100 100 100 100 100 100 100 100 100	STATE OF STA	Altition Home Profiled Or. Co., PF Altition Home Profiled Or. Co., PF Altition A. Marison 1014 pc Dr. Co., PF Errors & Marison 1014 pc Dr. Co., Pf. E.H. Industrial 95 pc Co., Pf. Pf. E.S. & for L. 1st. 85 pc Co., Pf First Scott. Assertions 11 t-pc thb 2016 Crewall Whitely 10pc the 2014 W wide Argists 12 High 26.2, 99 Do. 12 pc 193. 90 Do. 42 pc below-1 leaked 2024 Siddhaw Error B.S. 10 160 Co. Do RFP Laylor Woodrow 94 pc 1st. Ning Db 2014 Fops Ests. 104 pc 1st. Ning Db 2014/16.	STATE BY AND STATE OF THE STATE	4 44
			R	GHT	S OFFERS		
in the same	Amount,	Latest	29	68/89		Closing	144

Price Pak	Amount, Paid	Latest	29	68/89	Sect	Closing Price	+ 0
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45			2010	Lien	Power Corp. Wille	70pm	١.
zžo	WH		20pm 46pm 60pm	39pm	Stanley Letters Org.	4000	3
370	喇	-	60pm	55pm	Wateroughs	40pm 56pm	+1

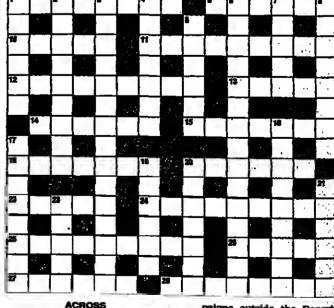
CLASSIFIED ADVERTISE	MENT RATES	
Appointments Commercial and Industrial Property Residential Property Business Opportunities Businesses For Sala/Wanted Personal Travel Contracts, Tenders	Per (ine (min.3 lines) £ 14.50 12.50 10.00 14.50 19.50 10.00 13.50	single col cm (min.3 cms) £ 49.00 43.00 35.50 51.00 46.00 35.50 35.50 35.50
Premium positions available \$16 per \$30 cms) All prices exclud For turther details Classified Advertiseme FINANCIAL TR 1, Southwark Bridge LON	• YAT write to: ust Manager tes	extris (Ma

	AS	E LENDING	RATES
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Chinal RA		Marigage Express Link &I	3.95 rate, § Domand deposit 8%, Murtga 13.625% - 14.00%



# **CROSSWORD**

No.6,889 Set by QUARK



ACROSS
1 Some offal is hard and disagreeable (8)
5 Looking at the other side?

gow (5)

11 Rough bedding sisel is ruined in the post (5)

12 Little man in the bar describing the barrel? (5-4)

13 Army in the money (that's consthing lie) (5)

something big) (5)

14 Drink very quietly when in a top hat (6)

15 Pushes east in battle for ancient city (7)

18 A symbol of real upset dogging the miners (7)

20 Alkali pocket by side of tree (6)

(6)
22 Make safe an animal hole (5)
24 Very pure character (4,5)
25 Gold Cup held in long sort

of grass (9)
26 Commend, although without capital, the American salary increase (5)
27 10-0 reverse? Must get the bird! (6) 28 College types with cam-

paigns outside the Depart ment of Employment (8)

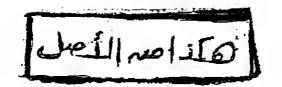
DOWN

1 The place and the time, in short, for a flying destroyer

(6)
2 it spoils the view (9)
3 Place of work? (5.5.5)
4 Imagine one's to drink and put on an act (7)
6 Down the pint and test around to celebrate (5.3.4.3)
7 Fashionable group let in (6)
6 Apply energy to the ship. it could show this (8)
9 Claim for everything — for example, last bit of thange (6)

(6)
18 A trace one prefers to be above (9)
17 Acrobatic role in PT uses combination of forces (8)
19 A girl brought up in Dundee is Sally (6)
20 Demo for a means of trial (7)
21 House closed for it? (6)
23 Race over again (5)
The solution to last Saturday's prize puzzle will be published

prize puzzle will be published with names of winners on 3sturday April 1.



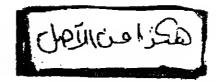
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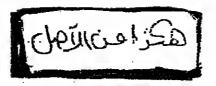
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**FINANCIAL TIMES** 

# **OVER-THE-COUNTER**

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**AUSTRIA** 

The Financial Times proposes to publish this survey on: 27th April 1989 For a full editorial synopsis and Birgit Schilbo
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> NOTICE TO **ADVERTISERS NEW FT FAX NUMBER** From Monday 20th March The Advertisement Classified Fax Number is: (01) 873 3864

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# Don't just automate the rule book

f artificial intelligence is such a powerful business technology, why aren't more companies using it? This question forces itself on the reader of a recent book co-au-thored by Edward Fsigen-

Prof Feigenbaum is a plo-neer of "expert systems", the dominant modern AI technology. The book is an account of how such systems are being used around the world. "Savvy as we are about expert systems," the authors report, systems," the authors report,
"we were not prepared for
what we saw." The systems
they discovered were "speeding up professional work by at
least a factor of 10. Speedup
factors of 20, 30, or 40 were

Some of the stories are indeed impressive. Digital Equipment's expert system for turning customers' orders for new computers into the detailed parts listings required by the factory has often been described. The latest version of the tale, recounted by Prof. Feigenhaum and his colleagues, reveals that Digital now has 10 major expert systems, producing savings of \$70m a year.

A system installed by Amer can Express to assist the clerks who authorise credit-card charges has also received a great deal of publicity. Its fame stems partly from its results (faster transactions, and a halving of the number of authorised charges that turn bad) and partly from the way it has been linked into the company's mainstream dataprocessing operations, some-thing that is comparatively rare among publicly reported expert systems.

Stories of heroes and villains

mostly feature heroic individuals, struggling against corpo rate obstruction to build the system of their dreams; the villains in these stories are usually the corporate computer departments. The cynical reader is forced into a quite untypical sympathy with the beleaguered infocrats. Surely they can't simply have been motivated by blind obscurantism? rate obstruction to build the

A hint that there might be another side to the tale comes in an engaging anecdote from IBM. Once it decided AI was interesting, teams from across the company were encouraged to work on expert systems pro-jects. One such scheme might, in a less intensely serious com-pany than IBM, have seemed a case of corporate self-parody: its designers planned to write an expert system to make it easier to fill in a particularly irritating collection of IBM

One of them describes how he announced the project at a conference at which many other, more grandiose, IBM expert systems plans were unveiled. He paused. Just as a little plug for ourselves, our application was one of the few that actually got finished."

Many such projects don't get finished. And for a good rea-son: they are often trying to apply the expert systems tech-nique to unsuitable bodies of knowledge. Many of the most knowledge. Many of the most successful expert systems are ones that describe, in essence, the automation of existing rulebooks (as in all three of the examples described here). For such problems, expert systems — with their collections of rules that say "If the situation is a, h and c, the answer is probably d" — are far more practical than traditional programming languages.

guages.

But there are relatively few types of problems for which this approach is appropriate. In big service firms, where there has traditionally been an emphasis on limiting the discretion of clerical staff through procedures and manuals, expert systems may find a fruitful home in antomating the rulebooks. But to the the rulebooks. But to the extent that companies want increasingly to tap the initiative and independence of action of their staff, they will find the other big computer trend of the 1980s – towards networks of powerful workstations with user-friendly, theoretics software – more liberating software - more

\*The rise of the expert com-gany. Edward Feigenbaum, Pamela McCorduck, Penny Nii.

Fitzgerald might have been an accomplished banker. His unhurried, somewhat tacitum demeanour would have equipped him admirably for that profession. It has also served him well in today's fast-moving telecom-

munications environment Munications environment.

Northern Telecom, in common with many of its peers, is etruggling to come to terms with the upheaval currently sweeping the telecommunications sector. In December, the company unveiled a comprehension provided and procompany unveiled a comprehensive restructuring programme that resulted in 2,200 redundancies and a \$200m extraordinary charge. The charge pushed Northern, headquartered in the charmless Toronto suburb of Missassauga, into the red for the fourth quarter. Net earnings for the year as a whole declined 44 per cent to \$183.2m, the lowest level since 1982.

The nature of the industry'e problem is two-pronged. On the one hand, growth rates for

problem is two-pronged. On the one hand, growth rates for hoth public and privats exchanges, long regarded as the sector's core business, are beginning to tail off. Moreover, manufacturers' profit margins are being squeezed by intense price competition. On the other, the race to develop the next generation of technology and to break into new secand to hreak into new geographic markets remains as heated and costly as ever. Northern's spending on research and development has more than doubled during Fitzgerald's 4½ years as chief executive. Last year, it reached 13.1 per cent of revenues, or more than \$700m.

Fitzgerald's analysis of the factors hehind Northern's recent success do much to explain both the thrust of the company's restricturing packcompany's restructuring package and the ever-increasing emphasis on R&D. In the space of 15 years, the once stuffy company – founded just eight years after Alexander Graham Bell invented the telephone in 1876 – has succeeded Massey-Forman as Canada's forester. Ferguson as Canada's foremost multi-national manufacturing concern. Two things, Fitzger-ald helieves, underlis this achievement: being the most innovative company in the business and being the most cost-effective producer. are going to continue to plug R&D," he says, "and we are not going to be moved off as the most cost-effective producer. I don't believe we have heen moved off yet."

Fitzgerald might have added

one further fact - the deregu-lation of the US telephone mar-ket - to explain Northern's Between 1982 (when Fitzgerald assumed the presidency) and 1985, the improved access to the US market that deregulation afforded helped revenues are removed — at greatly varying speeds. — around the rapid advance to world scale.

THE MONDAY INTERVIEW

# No room for wrong numbers

David Owen talks to Edmund Fitzgerald of Northern Telecom

to soar by 73 per cent to \$4.3bn. Net profits rose 142 per cent to \$273.8m over the same period. Fitzgerald expects the indus-

try'e transformation ultimately to strengthen Northern's hand. Prevailing trends, like the shift in emphasis away from simple switch production to upgrading existing networks (in a multi-tude of manifestations) will – he believes – give an impor-tant edge to large, innovative producers like Northern. "It is a much more difficult market in which to participate," he says. Northern's technological prowess has been widely recog-nised since the group pio-neered the development of alldigital telephone exchanges along with Alcatel, the French telecommunications company,

telecommunications company, in the early 1980s.

Similarly, Northern's large and geographically diverse installed base – which Fitzgerald describes as "a eort of annuity" – gives it a tremendous advantage over less wellestablished competitors. "The issue is: do you have an architecture that is sufficiently tecture that is sufficiently broad that you can gracefully implant on that architecture what the market needs - and do it earlier than anyone else

can?" he says. Fitzgerald also regards as a positive development the pro-cess of deregulation that is tilting the balance of power in the market away from the big monopolistic network opera-tors, who have traditionally called the shots. The first flush of competition has already sparked a clamour among telephone companies for the means to maximise income through new features.
"The pressure is on equip-

ment manufacturers to design equipment that provides them with the ability to offer new services that can provide new revenue streams on their fixed investment," says Fitzgerald.
"The leverage on new services is very high... That network

world, Fitzgerald expects the direction of new developments to be increasingly dictated by the end-user. The telephone company is not the ultimate consumer, the user of telecom-munications services is. The more regulated a market is, the

less that is true.
"People try to build cars that other people want to buy. They want to package cornflakes in a way that makes people want to buy them. Ultimately, we

# PERSONAL FILE

1926 Born Milwaukee. Electrical engineering BSc from University of Michi-

Joined electronics company Cutier-Hammer 1969-78 Chairman and CEO,

Cutler-Hammer 1978-79 Chief operating officer, Eaton Corporation Preeldent of Northern Telecom's US subsidiary 1982 President of Northern

1984 Chief executive officer 1985 Chairman and CEO

are headed for that kind of market - and probably quicker than most believe. Fitzgerald is a Milwaukeehorn electrical engineering graduate who spent more than 30 years with the electronics firm Cutler-Hammer. He is per-haps fortunate to report to a controlling shareholder, the telephone and gas utility, Mon-treal-based BCE, which shares his patience. The increasingly diversified group, which still holds 100 per cent of its old core, Bell Canada, supplies only two of Northern's 20-member board. "I have never got anything from BCE except very strong support," says Fitz-

Like other telecommunications manufacturers, Northern has found it difficult to pene-trate overseas markets. This has effectively prevented the formulation of a coherent global strategy. Companies have had to be ready to pour resources into individual mar-kets on an ad hoc basis as

opportunities open up.
The strategic importance attached by nations to maintaining a telecommunications capability has meant that such openings have usually entailed investment in the host country a situation which a sceptica Fitzgerald does not expect to change. He thus sets particular store hy Northern's recent

breakthrough in Japan, where it has become a supplier in a small way to NTT, the large public telephone operator.

"I don't think you can effectively be in the telecommunications husiness and not have some sort of situation in Japan," he says. "We were per-sistent and patient . . . It took us six years to get an order and cost us about \$50m - but we got it." It remains to be seen whether this initial success will hlossom into a relation-ship of lasting commercial sig-

nct is better today because we sold it to the Japanese. They forced disciplines and stan-

Just as the US-Canada free trade agreement has been fol-lowed by rationalisation of Northern's North American operations, so the advent of the European single market after 1992 should permit the group to move towards integration of its sundry European invest-ments. Northern holds 27.5 per cent of STC, the UK electronics company, and will shortly open its first European plant at Verdun in northern France.

The Europe we have been working in over the past 20 years has been a compartmen-talised Europe," Fitzgerald says. "Assuming 1992 is real, we now have to convert that compartmentalised operation into what will become a num-

nificance. In the meantime, Fitzgerald says, Northern's intensive efforts have already yielded some unexpected bene-fits. "NTT probably had the stiffest requirements of anyone we have ever sold to. Our prod-

in a railroad car. The song they sang was 'You have got to know the territory.' In the UK,



'I don't think you can be effective in telecommunications and not be in Japan'

ber of centres of excellence that integrate themselves. I think we will be able to make this conversion as quickly as

Europe can."

As the new structure develops, Fitzgerald expects the UK to emerge as Northern's European base for public network products, with France the centre for business communications systems and West Germany for packet data many for packet data

networks.

The convoluted saga of the GEC/Siemens bid for Plessey has sparked persistent speculation that STC might become involved — with Northern's backing — in a takeover of GPT, the joint venture telecompany opened. munications company owned

by GEC and Plessey.

While Fitzgerald does not rule out that possibility, he alludes to Meredith Willson's popular musical The Music Man to imply that any such decision would be made by STC. "The opening scene," Fitzgerald recalls, "was a bunch of salesmen riding along

STC is the man who knows the territory. Therefore, we are significantly influenced by their views of what should be done. As long as it is not something to which we are dismostricelly to which we are dismostricelly to the same than a spectral that something to which we are dismostricelly the same than the sam to which we are diametrically opposed or don't have the resources to support, we are going to go with them.

At 63, Fitzgerald — a former
'US Marine and co-founder of
the Milwaukee Brewers basehall team — has just named his
successor: Paul Stern, a former
president of Unisys, the US
computer company formed by
the merger of Burroughs and
Sperry. Stern will succeed to
the chairmanship in April 1990.
The appointment prompted The appointment prompted speculation that Northern might be preparing to plungs back into the computer lust-ness, from which it withdrew, bruised, earlier in the decade. Attempts to build bridges between the telecommunications and computer industries have to date generally disappointed their progenitors lofty expectations. Fitzgerald, at least, denies any such inten-tions. "Northern has had its

fling at the computer industry

last part of it to death."

Fitzgerald points instead to other aspects of Stern's background that caught his eye.

Paul Stern's significant international experience, and the fact that he is an American and when I leave we will lose the only American in our topmanagement echelon were both important. I also think whomer back this commany. whoever heads this company; should have a better know-ledge of technology than I do. He has a doctorate in physics from Manchester University."

Though the time is past when the appointment of an American to such a post would have been controversial in nave been controversial in Canada, Fitzgerald's comments indicate just how critical the US market has become to the company, The US accounted for more than 60 per cent of overall 1987 revenues and a similar proposition of identifi-phia assets. The commany. able assets. The company, which has never flammed its Canadian identity south of the border, now has as many US as

# Singapore's banning of Mr Lester

he Singapore Govern-ment's withdrawal of permission to Mr Anthony Lester QC to practise in the courts of Singapore, which drew a riposte from the Foreign and Commonwealth Office, revealed the fundamental difference in approach to the role and function of law-yers in society.

The barring of Mr Lester centres on his appearance on behalf of one of originally 22 persons detained without trial persons detained without that under Singapore's internal Security Act. His client Miss Teo Soh Loong (herself a law-yer) had in Angust 1988 hrought habeas corpus pro-ceedings which failed. In December, however, her appeal was successful, the Court of Appeal sweeping away a line of cases which had hitherto made ministers' decisions to detain persons who were considered a threat to national security virtually unchallengeable. Predictably the Singapore Government immediately re-arrested Miss Teo and in double quick time passed through the legislature a bill to reverse retroime passed through the legislature a hill to reverse retrospectively the court's decision and the reasoning for it. It simultaneously blocked any future appeal to the Judicial Committee of the Privy Council which involve cases under the Internal Security Act. The minister's immunity from judicial review was restored. Habeas corpus — the legal bulwark against arbitrary restrictions by government on individual liberty — became a dead letter in Singapore.

Despite the rebuff of his client's case, Mr Lester returned to the forensic fray to challenge the validity of Miss Teo's rearrest. The hearing before the High Court ended 10 days ago and the result is awaited.

Prior to the recent hearing Mr Lester was told by the Singapore Government that his professional visitor's pass to appear for Miss Teo would be Mr Lester's last case in Singapore in

apore Government that his professional visitor's pass to appear for Miss Teo would be Mr Lester's last case in Singapore. Appeals from London against the barring of any appearance in the Singapore courts were rejected. During the exchange of communications it become often what had ordination of the expert com-trid Feigenbaum, ordinated, Penny Nit. Condon, E14.95

Peter Martin

The exchange of Communications it became clear what had aroused the ire of the Singa-pore Government and the with-drawal of a privilege which is accorded generally – and gen-erously – to Queens Counsel



# JUSTINIAN

from England whom Singaporeans wish to instruct in cases that either present peculiar difficulties or some legal specialism, or where for political reasons local lawyers are fearful of incurring the displeasure of the Government and possible curtailment of their professional careers.

curtailment of their professional careers.

Mr Lester's offence, it
appears, was his interference
in the domestic politics of Singapore other than what he said
and did in the course of his
forensic advocacy. As evidence
of such interference, the Government pointed to an occasion
when Mr Lester was alleged to
have told a seminar at the have told a seminar at the School of Oriental and African School of Oriental and African Studies in the University of London that he was unhappy at the arrest of his client and that he was briefed to take on Miss Teo's case "because Sing-apore's lawyers were afraid to take it, lest they be arrested." The Singapore Government was not slow to report that the

The Singapore Government was not slow to retort that the view said to have been expressed by Mr Lester was baseless and preposterous.

Following the communication of the ban on Mr Lester last month the Foreign and Commonwealth Office told Singapore's High Commissioner in London that Mr Lester was a highly regarded professional lawyer and enjoyed that reputation throughout the Commonwealth and European Community where over the Commonwealth and European Community where over the years he has been a frequent practitioner. His exclusion from the Singapore courts, according to the Foreign Office spokesman, would be "bound to cause widespread dismay going beyond the United Kingdom." That message was conveyed contemporaneously by the UK High Commissioner in the UK High Commissioner in Singapore to the Permanent Secretary to the Singapore

Ministry of Foreign Affairs. Over the years several English QCs have fallen foul of govern-QCs have fallen foul of governments in Commonwealth countries where the English professional qualification provided an entrée into the courts of former. British colonial territories. But rarely, if ever, has the British Government publicly taken up the cudgels of an individual barrister, as they have done in the case of Mr Lester. This is in spite of the fact that most of them likewise have, to use the phrase stiributed by the Singapore Government to Mr Lester's conduct, "mixed up a human duct, "mixed up a human rights crusade with legal duties to the court."

rights crusade with legal duties to the court."

Singapore under Lee Kuan Yew's Prime Ministership, with his increasing grip on the political life of an economically successful city state, has by implication declared its attitude towards the legal profession and other professionals. In effect lawyers must stick to their last. If they want to engage in politics they must become politicians to the exclusion of any other activity or occupation, and support the People's Action Party which has a virtual monopoly of parliamentary power. Opposition parties in Singapore are barely countenanced as part of the political scene.

This is all very different from the attitude in Britain. Practising lawyer have always have accounted the second counter and the second counter and the strain.

from the attitude in Britain. Practising lawyers have always been permitted dual lives—their professional practices and their extra legal involvement in public life. Many barristers simultaneously are members of parliament. Only ministerial office takes them away from legal practice.

The dismay expressed by the Foreign Office at Singapore's treatment of Mr Lester will be no less shared by Mr Lester's professional colleagnes. Twenty years ago the Honourable Society of the Middle Temple made Lee Kuan Yew an Honorary Bencher, which Singapore's Prime Minister is known to be proud of being. It may be the Benchers of this Inner Court will now at least contemplate threatening to contemplate threatening to Bencher. Such a move might help to restore, as the lawyers would put it, the status ante quo of the banning of Mr Les-ter. "disbench" their Honorary

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20th March, 1989